XR-C503

SERVICE MANUAL

East European Model

Model Name Using Similar Mechanism	XR-C500RDS
Tape Transport Mechanism Type	MG-52B-135

SPECIFICATIONS

Cassette player section

Tape track	4-track 2-channel stereo
Wow and flutter	0.08 % (WRMS)
Frequency response	30 – 20,000 Hz
Signal-to-noise ratio	

Cassette type	Dolby B NR	Dolby NR off
TYPE II, IV	67 dB	61 dB
TYPE I	64 dB	58 dB

Tuner section

FM*

Tuning range	65.0 – 74.0 MHz (at 30 kHz step) 87.5 – 108.0 MHz (at 50 kHz step)
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz
Usable sensitivity	9 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 68 dB (mono)
Harmonic distortion at 1 kHz	0.5 % (stereo), 0.3 % (mono)
Separation	35 dB at 1 kHz Frequency response 30 – 15,000 Hz
Capture ratio	2 dB

* *There are the numerical values measured at 87.5 - 108.0 MHz.*

MW/LW

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 281 kHz
Aerial terminal	External aerial connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	MW: 30 µV LW: 50 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	35 W × 4 (at 4 ohms)

General

Outputs	Line outputs (2) Power aerial relay control lead Power amplifier control lead
Tone controls	Bass ±8 dB at 100 Hz Treble ±8 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 188 × 58 × 177 mm (w/h/d)
Mounting dimension	Approx. 182 × 53 × 162 mm (w/h/d)
Mass	Approx. 1.3 kg
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1) Rotary remote RM-X2S

Design and specifications are subject to change without notice.

FM/MW/LW CASSETTE CAR STEREO

SONY®

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Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

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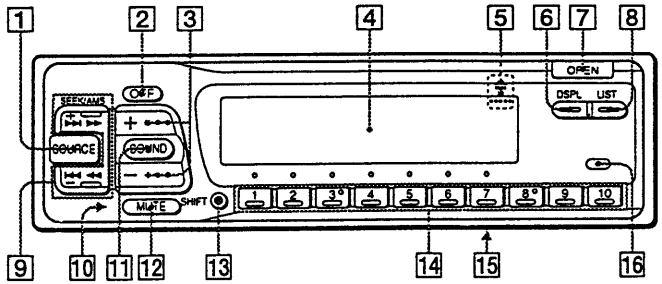
Location of controls



Refer to the pages for details.

1 SOURCE (source select) button 6, 7, 8, 11, 13

2 OFF button 4, 6

3 ⊕ ⊖ (volume/bass/treble/balance/fader control) button 5, 8, 9, 10, 13

4 Display window

5 ⏏ (eject) button (located on the front side of the unit hidden by the front panel) 6

6 DSPL (display mode change) button 6, 8, 9, 11, 12, 13

7 OPEN button 4, 6, 15

8 LIST button
Disc Memo 13
List-up 9, 14
Station Memo 8

9 SEEK/AMS (seek/Automatic Music Sensor/manual search) button 6, 7, 8, 12, 14

10 Reset button (located on the front side of the unit hidden by the front panel) 4

11 SOUND button 10

12 MUTE button 10

13 SHIFT button
BTM 7
SET UP 5, 11
PLAY MODE 7, 8, 12, 14

14 During radio reception:
Preset number buttons 7, 8
During CD/MD playback:
Direct disc selection buttons 12

15 POWER SELECT switch (located on the bottom of the unit)
See "POWER SELECT switch" in the Installation/Connections manual.

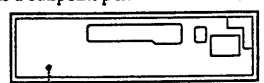
16 Receptor for optional wireless remote

EN EN Additional Information

Getting started

Resetting the unit

Before operating the unit for the first time or after replacing the car battery, you must reset the unit.
Press the reset button with a pointed object, such as a ballpoint pen.



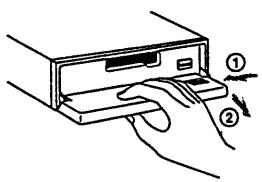
Note
Pressing the reset button will erase all the memory functions except for the preset stations.

Detaching the front panel

You can detach the front panel of this unit to prevent the unit from being stolen.

1 Press (OFF).

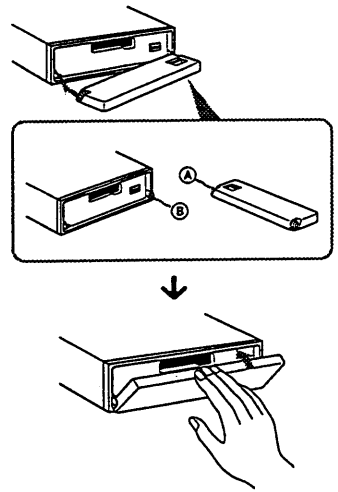
2 Press (OPEN) to open the front panel, then slide the front panel to the left side, and pull out the right side of the front panel.



Notes
- *Do not put anything on the inner surface of the front panel.*
- *Be sure not to drop the panel when detaching it from the unit.*
- *If you detach the panel while the unit is still on, the power will turn off automatically to prevent the speakers from being damaged.*
- *When you carry the front panel with you, put it in the supplied front panel case.*

Attaching the front panel

Place the hole Ⓐ in the front panel onto the spindle Ⓑ on the unit as illustrated, then push the left side in.



Notes
- *Be sure not to attach the front panel upside down.*
- *Do not press the front panel hard against the unit when attaching it. Press it lightly against the unit.*
- *Do not press hard or put excessive pressure on the display windows of the front panel.*
- *Do not expose the front panel to direct sunlight, heat sources such as hot air ducts, and do not leave it in a humid place. Never leave it on the dashboard of a car parked in direct sunlight where there may be a considerable rise in temperature.*

Caution alarm

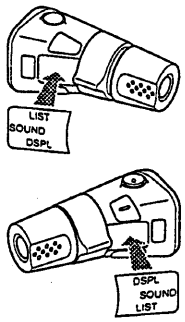
If you turn the ignition key switch to the OFF position without removing the front panel, the caution alarm will beep for a few seconds (only when the POWER SELECT switch is set to the Ⓐ position).

SECTION 1
GENERAL

This section is extracted from instruction manual.

Preparing the rotary remote

When you mount the rotary remote, attach the label in the illustration below.

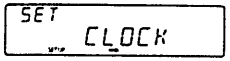


Setting the clock

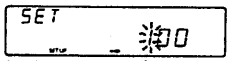
The clock has a 12-hour digital indication.

Example: Set the clock to 10:08

1 Press (SHIFT), then press ② (SET UP).



❶ Press ④ (→).

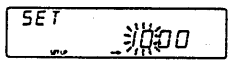


The hour digit flashes.

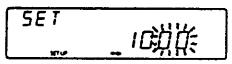
❷ Set the hour.

to go forward

to go back



❸ Press ④ (→).

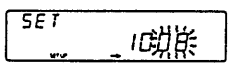


The minute digits flash.

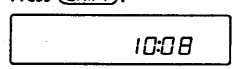
❹ Set the minute.

to go forward

to go back



2 Press (SHIFT).



The clock starts.

Note

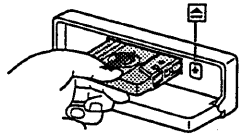
If the POWER SELECT switch on the bottom of the unit is set to the ⓑ position, turn the power on first, then set the clock.

EN

Cassette Player

Listening to the tape

1 Press (OPEN) and insert the cassette.

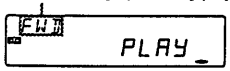


Playback starts automatically.

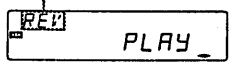
2 Close the front panel.

If the cassette is already inserted, press (SOURCE) until "FWD" or "REV" appears to start playback.

The side facing up is being played.



The side facing down is being played.



Tips

- *To change the tape transport direction, press ⑦ (◀II▶).*
- *"METAL" appears in the display when you insert the metal or CrO_2 tape (Auto Metal function).*

To	Press
Stop playback	(OFF)
Eject the cassette	(OPEN) then ⏏

Fast-winding the tape

During playback, press either side of (SEEK/AMS) for one second.

Fast-forward

Rewind

To start playback during fast-forwarding or rewinding, press ⑦ (◀II▶).

Locating the beginning of the tracks

— Automatic Music Sensor (AMS)

You can skip up to nine tracks at one time.

During playback, press either side of (SEEK/AMS) momentarily.

To locate the succeeding tracks

To locate the previous tracks

Note

The AMS function may not work when :

- *the blanks between tracks are shorter than four seconds.*
- *there are noises.*
- *there are long sections of low volume or quiet sections.*

Changing the displayed items

Each time you press (DSPL), the item changes as follows:

Tape playback → Clock → Frequency* → Tape playback

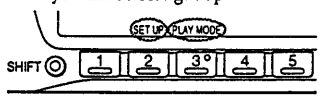
* *While the ATA function is activated.*

Playing the tape in various modes

You can play the tape in various modes:
- INTRO (Intro Scan) lets you play the first 10 seconds of all the tracks.
- REP (Repeat Play) repeats the current track.
- NR (Dolby NR) lets you select the Dolby* NR B system.
- ATA (Automatic Tuner Activation) turns on the tuner automatically while fast-winding the tape.
- BL.SKP (Blank Skip) skips blanks longer than eight seconds.

* *Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.*

1 Press (SHIFT).
Every time you press (SHIFT), only the items you can select light up.



2 Press ③ (PLAY MODE), repeatedly until the desired play mode appears.
Each time you press ③, the item changes as follows:
INTRO → REP → NR → ATA → BL.SKP

3 Press ④ (→) to select "ON."

Playback starts.

To go back to the normal playback mode, select "OFF" in step 3 above.

Radio

Memorising stations automatically

— Best Tuning Memory (BTM)

The unit selects the stations with the strongest signals and memorises them in the order of their frequencies. You can store up to 10 stations on each band (FM1, FM2, MW and LW).

Caution
When tuning in the station while driving, use Best Tuning Memory to prevent accidents.

1 Press (SOURCE) repeatedly to select the desired band (FM1, FM2, MW or LW).

2 Press (SHIFT), then press ⑥ (BTM).
The unit stores stations in the order of their frequencies on the number buttons.
A beep sounds and the setting is stored.

Notes
- *The unit does not store stations with weak signals. If only a few stations are received, some number buttons remain empty.*
- *When a preset number is indicated in the display, the unit starts storing stations from the one currently displayed.*

Memorising only the desired stations

You can store up to 10 stations on each band (20 for FM1 and FM2, 10 for MW or LW) in the order of your choice.

1 Press (SOURCE) repeatedly to select the desired band.

2 Press either side of (SEEK/AMS) to tune in the station that you want to store on the number button.

3 Keep the desired number button (① to ⑩) pressed for two seconds until you hear a beep tone.

The number button indication appears in the display.

Note
If you try to store another station on the same number button, the previously stored station will be erased.

Receiving the memorised stations

1 Press (SOURCE) repeatedly to select the desired band.

2 Press the number button (① to ⑩) momentarily, where the desired station is stored.

If you cannot tune in a preset station

Press either side of (SEEK/AMS) momentarily to search for the station (automatic tuning).
Scanning stops when the unit receives a station. Press either side of (SEEK/AMS) repeatedly until the desired station is received.

Note
If the automatic tuning stops too frequently, press (SHIFT), then press ③ (PLAY MODE) repeatedly until "LOCAL" (local seek mode) is displayed. Then press ④ (→) to select "ON."
Only the stations with relatively strong signals will be tuned in.

Tip
If you know the frequency of the station you want to listen to, press and hold either side of (SEEK/AMS) for two second, until the desired frequency appears (manual tuning).

Receiving FM stereo stations
— POLAR modulation

The POLAR modulation function automatically changes and retunes the stations within 65.0 to 74.0 MHz in the PILOT tone mode or POLAR tone mode.
The stations within 87.5 to 108.0 MHz are received only in the PILOT tone mode.

If FM stereo reception is poor
— Monaural Mode

1 Press (SHIFT), then press ③ (PLAY MODE) repeatedly until "MONO" appears.

2 Press ④ (→) repeatedly until "MONO-ON" appears.
The sound improves, but becomes monaural ("STEREO" disappears).

To go back to the normal mode, select "MONO-OFF" in step 2 above.

Changing the displayed items

Each time you press (DSPL), the item changes as follows:
Frequency ⟷ Clock

Storing the station names

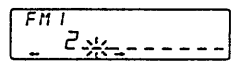
— Station Memo

You can assign a name to each radio station and store it in memory. The name of the station currently tuned in appears in the display. You can store up to eight characters for a station.

Storing the station names

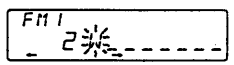
1 Tune in a station whose name you want to store.

2 Press (LIST) for two seconds.



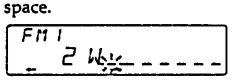
3 Enter the characters.

❶ Press ⊕ to select the desired characters.
(A → B → C → ··· Z → 0 → 1 → 2 → ··· 9 → + → − → * → / → \ → > → < → . → _)



If you press ⊖, the characters appear in the reverse order.
If you want to put a blank space between characters, select "_" (under-bar).

❷ Press ④ (→) after locating the desired character.
The flashing cursor moves to the next space.



If you press ① (←), the flashing cursor moves to the left.

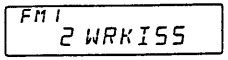
❸ Repeat steps ❶ and ❷ to enter the entire name.

4 To return to the normal radio reception, press (LIST) for two seconds.

Tip
To erase/correct a name, enter "_" (under-bar) for each character.

Displaying the station name

Press (DSPL) during radio reception.



Each time you press (DSPL), the item changes as follows:

→ Station name* → Frequency → Clock →

* *If the station name is not stored, "NO NAME" appears in the display for one second.*

Erasing the station name

1 Tune in any station and press (LIST) for two seconds.

2 Press (DSPL) for two seconds.

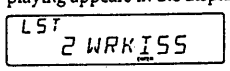
3 Press ⊕ or ⊖ to select the name that you want to erase.

4 Press (5) (ENTER) for two seconds.
The name is erased.
Repeat steps 3 and 4 if you want to erase other names.

5 Press (LIST) for two seconds.
The unit returns to the normal radio reception mode.

Locating a station by name — List-up

1 Press (LIST) momentarily.
The name assigned to the station currently playing appears in the display.



2 Press (LIST) repeatedly until you find the desired station.

3 Press (5) (ENTER) to tune in the desired station.

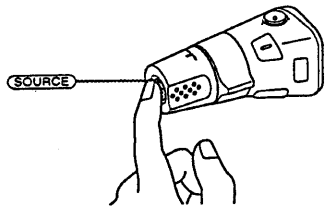
Note
Once the station name or frequency has been displayed for five seconds, the display goes back to its normal mode. To turn off the display, press (DSPL).

Other Functions

Using the rotary remote

The rotary remote works by pressing buttons and/or rotating controls.
You can control the optional CD or MD changer with the rotary remote.

By pressing the button (the SOURCE button)

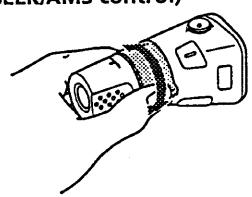


Each time you press (SOURCE), the source changes as follows:

FM1 → FM2 → MW → LW → CD1 → CD2 → MD1 → MD2 → TAPE

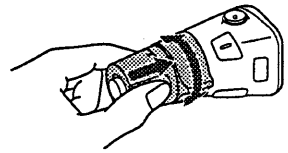
Tip
You can turn on this unit by pressing (SOURCE) on the rotary remote.

By rotating the control (the SEEK/AMS control)



Rotate the control momentarily and release it to:
- Locate the beginning of the tracks on the tape. Rotate and hold the control, and release it to fast-wind the tape. To playback, rotate and hold the control again, and release it.
- Locate a specific track on a disc. Rotate and hold the control to locate the specific point in a track, then release it to start playback.
- Tune in the stations automatically. Rotate and hold the control to tune in the specific station.

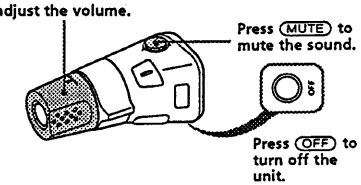
By rotating the control while pushing (the PRESET/DISC control)



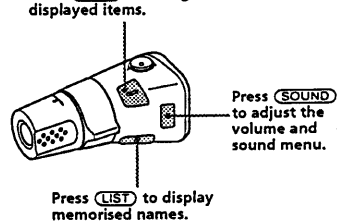
Rotate the control while pushing it to:
- Receive the stations memorised on the preset buttons.
- Change the disc.

Other operations

Rotate the VOL control to adjust the volume.

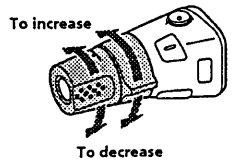


Press (DSPL) to change the displayed items.

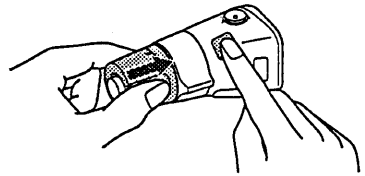


Changing the operative direction

The operative direction of controls is factory preset as in the illustration below.



If you need to mount the rotary remote on the right of the steering column, you can reverse the operative direction of the controls.



Press (DSPL) two seconds while pushing the VOL control.

Tip
You can control the operative direction of controls with the unit.

Adjusting the sound characteristics

You can adjust the bass, treble, balance and fader.
Each source can store the bass and treble level respectively.

1 Select the item you want to adjust by pressing (SOUND) repeatedly.

VOL (volume) → BAS (bass) → TRE (treble) → BAL (balance) → FAD (fader)

2 Adjust the selected item by pressing ⊕ or ⊖.
Adjust within three seconds after selecting. (After three seconds, the buttons work as volume control buttons.)

Muting the sound

Press (MUTE).
"MUTE-ON" flashes.

To restore the previous volume level, press (MUTE) again.

Tip
The unit decreases the volume automatically when a telephone call comes in (Telephone-mute function).

Changing the sound and display settings

You can set:
- AMBER/GREEN to change the illumination colour to amber or green.
- BEEP to turn on or off the beeps.
- DIM (dimmer) to change the brightness of the display.
- D.INFO (dual information) to display the clock and the play mode at the same time (ON) or to display the information alternately (OFF).
- LOUD (Loudness) to enjoy bass and treble even at low volume. Bass and treble will be reinforced.
- RM (Rotary Remote) to change the operative direction of the controls of the rotary remote.
  — Select "NORM" to use the rotary remote as the factory preset position.
  — Select "REV" when you mount the rotary remote on the right of the steering column.

1 Press (SHIFT), then press (2) (SET UP).

2 Press (2) (SET UP) repeatedly until the desired setting mode appears.

Each time you press (2) (SET UP), the item changes as follows:
CLOCK → AMBER/GREEN → BEEP → DIM → D.INFO → LOUD → RM

3 Press (4) (→) to select the desired setting (for example: ON or OFF).

4 Press (SHIFT).
When the mode setting is complete, the normal playback mode appears.

With Optional Equipment

CD/MD Changer

You can control up to 10 CD changers and MD changers with this unit.

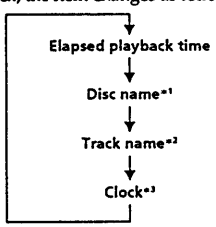
Playing a CD or MD

Press (SOURCE) until the desired changer appears.
CD/MD playback starts.

When a CD or MD changer is connected, all the tracks play from the beginning.

Changing the displayed items

Each time you press (DSPL) during CD/MD playback, the item changes as follows:



*1 *If there is no prerecorded name for an CD or MD, "NO NAME" appears in the display.*
*2 *If the track name of an MD is not prerecorded, "NO NAME" appears in the display.*
*3 *If the dual information is on, clock does not appear in the display.*

Tip
If the name of the MD is too long, you can scroll it across the display by pressing (SHIFT), then (1) (←).

Automatically scrolling a disc name — Auto Scroll

The Auto Scroll function automatically scrolls the disc or track name of the MD when you press (DSPL) and the name length exceeds eight characters.

1 Press (SHIFT), then press (2) (SET UP) repeatedly until "A.SCRL" appears.

2 Press (4) (→) to select "A.SCRL-ON."

To cancel Auto Scroll, select "A.SCRL-OFF" in step 2 above.

Displaying the recording date of the currently selected MD

Press (DSPL) for two seconds during MD playback.
The recording date of the track is displayed for about three seconds.

Locating a specific track — Automatic Music Sensor (AMS)

During playback, press either side of (SEEK/AMS) once for each track you want to skip.

To locate succeeding tracks

To locate previous tracks

Locating a specific point in a track — Manual Search

During playback, press and hold either side of (SEEK/AMS). Release the button when you have found the desired point.

To search forward

To search backward

Locating a disc by disc number — Direct Disc Selection

Press the number button that corresponds with the desired disc number.
The desired disc in the currently selected changer begins playback.

Scanning the tracks — Intro Scan

You can play the first 10 seconds of all the tracks on the currently selected disc.

1 During playback, press (SHIFT), then press (3) (PLAY MODE) repeatedly until "INTRO" appears.

2 Press (4) (→) repeatedly until "INTRO-ON."
Intro Scan starts.

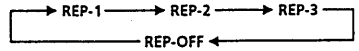
To go back to the normal playback mode, select "INTRO-OFF" in step 2 above.

Playing tracks repeatedly — Repeat Play

You can select:
- REP-1 to repeat a track.
- REP-2 to repeat a disc.
- REP-3 to repeat all the discs in the current changer.

1 During playback, press (SHIFT), then press (3) (PLAY MODE) repeatedly until "REP" appears.

2 Press (4) (→) repeatedly until the desired setting appears.



Repeat play starts.

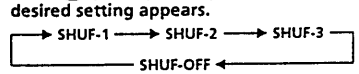
To go back to the normal playback mode, select "REP-OFF" in step 2 above.

Playing tracks in random order — Shuffle Play

You can select:
- SHUF-1 to play the tracks on the current disc in a random order.
- SHUF-2 to play the tracks in the current changer in a random order.
- SHUF-3 to play all the tracks in a random order.

1 During playback, press (SHIFT), then press (3) (PLAY MODE) repeatedly until "SHUF" appears.

2 Press (4) (→) repeatedly until the desired setting appears.



Shuffle play starts.

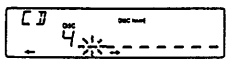
To go back to the normal playback mode, select "SHUF-OFF" in step 2 above.

Labeling a CD

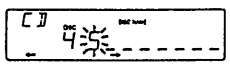
— Disc Memo
(CD changer with custom file function)

You can label each disc with a personalized name. You can enter up to eight characters for a disc. If you label a CD, you can locate a disc by name and select the specific tracks for playback (page 14).

1 Play the CD and press (LIST) for two seconds.

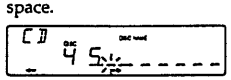


2 Enter the characters.
❶ Press (+) to select the desired characters.
(A → B → C → ··· Z → 0 → 1 → 2 → ··· 9 → + → − → * → / → \ → > → < → . → _)



If you press (−), the characters appear in the reverse order.
If you want to put a blank space between characters, select "_" (underbar).

❷ Press (4) (→) after locating the desired character.
The flashing cursor moves to the next space.



If you press (1) (←), the flashing cursor moves to the left.

❸ Repeat steps ❶ and ❷ to enter the entire name.

3 To return to the normal CD playback mode, press (LIST) for two seconds.

Tip
To erase/correct a name, enter "_" (under-bar) for each character.

Displaying the disc memo

Press (DSPL) during CD playback.

Each time you press (DSPL) during CD playback, the item changes as follows:

→ Elapsed playback time → Disc name → Clock →

Erasing the disc memo

1 Press (SOURCE) to select the CD changer.

2 Press (LIST) for two seconds.

3 Press (DSPL) for two seconds.

4 Press (+) or (−) to select the name that you want to erase.

5 Press (5) (ENTER) for two seconds.
The name is erased.
Repeat steps 3 and 4 if you want to erase other names.

6 Press (LIST) for two seconds.
The unit returns to the normal CD playback mode.

Locating a disc by name

— List-up (CD changer with custom file function or MD changer)

You can use this function for the discs that have been assigned a custom name. For more information on disc names, refer to "Labeling a CD" (page 13).

1 Press (LIST) momentarily.
The name assigned to the disc currently playing appears in the display.

2 Press (LIST) repeatedly until you find the desired disc.

3 Press (5) (ENTER) to play back the disc.

Notes
- *Once a disc name has been displayed for five seconds, the display goes back to its normal playback mode. To turn off the display, press (DSPL).*
- *The track names are not displayed during MD playback.*
- *If there are no discs in the magazine, "NO DISC" appears in the display.*
- *If a disc has not been assigned a custom file, "--------" appears in the display.*
- *If the disc information has not been read by the unit, "NOT READ" appears in the display. To load the disc, first press the number button, then choose the disc that has not been loaded.*
- *The information is appears only in upper cases. There are also some letters which cannot be displayed (during MD playback).*

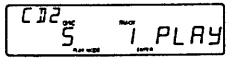
Selecting the specific tracks for playback

— Bank
(CD changer with custom file function)

If you label the disc, you can set the unit to skip tracks and play only the tracks you want.

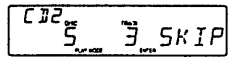
1 Start playing the disc and press (SHIFT). Then press (3) (PLAY MODE) for two seconds.

Bank edit mode



Note
If you have not labeled the disc, the bank edit mode does not appear.

2 Press either side of (SEEK/AMS) to select the track number you want to skip and press (5) (ENTER).



The indication changes from "PLAY" to "SKIP." If you want to return to "PLAY," press (5) (ENTER) again.

3 Repeat step 2 to set the "PLAY" or "SKIP" mode on all the tracks.

4 Press (3) (PLAY MODE) for two seconds.

Notes
- *You can set the "PLAY" and "SKIP" mode on up to 24 tracks.*
- *You cannot set the "SKIP" mode on all the tracks.*

Playing the specific tracks only

You can select:
- BANK-ON to play the tracks with the "PLAY" setting.
- BANK-INV (inverse) to play the tracks with the "SKIP" setting.

1 During playback, press (SHIFT), then press (3) (PLAY MODE) repeatedly until "BANK" appears.

2 Press (4) (→) repeatedly until the desired setting appears.

→ BANK-ON → BANK-INV → BANK-OFF →

Playback starts from the track following the current one.

To go back to the normal playing mode, select "BANK-OFF" in step 2 above.

Connections

Caution

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **yellow** and **red** power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.
- **Run all earth wires to a common earth point.**

If your car has no accessory position on the ignition key switch

— POWER SELECT switch

The illumination on the front panel is factory-set to be turned on even when the unit is not being played. However, this setting may cause some car battery wear if your car has no accessory position on the ignition key switch. To avoid this battery wear, set the POWER SELECT switch located on the bottom of the unit to the ⓪ position, then press the reset button. The illumination is reset to stay off while the unit is not being played.

Note

The caution alarm for the front panel is not activated when the POWER SELECT switch is set to the ⓪ position.

Wykonanie podłączeń

Zasady bezpieczeństwa

- Niniejszy sprzęt jest przeznaczony wyłącznie do pracy przy zasilaniu prądem stałym o 12 V i ujemnym uziemieniu.
- Proszę przed wykonaniem podłączeń odłączyć uziemienie akumulatora, aby zapobiec wystąpieniu zwarcia.
- Żółty i czerwony wejściowy przewód zasilający proszę podłączyć dopiero po podłączeniu wszystkich innych przewodów.
- Czerwony przewód zasilający należy koniecznie podłączyć do końcówki +12 V, która jest zasilana zawsze po przekręceniu kluczyka w stacyjce do położenia, w którym włącza się zasilanie przyrządów.
- **Wszystkie przewody uziemiające należy poprowadzić do wspólnego miejsca uziemienia.**

Jeżeli stacyjka samochodu nie jest wyposażona w pozycję przełączania na sprzęt dodatkowy, proszę nastawić włącznik oznaczony

— POWER SELECT (wybór źródła zasilania)

Wskaźnik świetlny na panelu jest fabrycznie ustawiony na włączenie nawet w przypadku kiedy sprzęt nie jest użytkowany. Zwraca się jednak uwagę na fakt, że nastawienie takie powoduje pewne zużycie akumulatora jeżeli pojazd nie jest wyposażony w dodatkową pozycję na stacyjce. Celem uniknięcia dodatkowego zużycia akumulatora, proszę nastawić przełącznik POWER SELECT (wybór źródła zasilania), umieszczony pod spodem sprzętu, na pozycję oznaczoną ⓪, a następnie proszę nacisnąć przycisk zerowania (reset). W ten sposób zostaje wyłączony wskaźnik świetlny na czas kiedy sprzęt nie jest użytkowany.

Uwaga

Alarm ostrzegawczy panelu nie zostaje uaktywniony, jeżeli przełącznik POWER SELECT (wybór źródła zasilania) jest ustawiony w pozycji ⓪.

Свързване

Предупреждение

- Този апарат е конструиран за работа само с прав ток 12 V и заземяване на отрицателната клема.
- Преди да направите свързването откачете заземяващата клема на акумулатора на автомобила, за да избегнете къси съединения.
- Свържете жълтия и червен захранващи проводници само след като сте свързали всички останали проводници.
- Убедете се, че със сигурност свързвате червения захранващ проводник към положителната клема с 12 V, към която се подава ток при положение на ключа за запалване за спомагателни уреди.
- **Подведете всички заземяващи проводници към обща заземяваща точка.**

В случай, че Вашият автомобил няма положение за спомагателни уреди на ключа за запалване

— POWER SELECT превключвател

Осветлението на предното табло за управление е фабрично настроено да свети дори, когато апаратът не работи. Тази настройка, обаче може да доведе до известно изтощаване на акумулатора, ако Вашият автомобил **няма положение за спомагателни уреди на ключа за запалване. За да избегнете изтощаване на акумулатора, поставете превключвателя POWER SELECT,** който е разположен на долната страна на апарата в положение ⓪ и след това натиснете бутона за промяна на настройката. Сега вече осветлението е настроено да не свети, когато апаратът не работи.

Забележка

Предупредителният сигнал за предното табло за управление не се задействува, когато POWER SELECT превключвателят е поставен в положение ⓪.

Csatlakozások

Figyelem

- Ez a készülék csak 12 V-os negatív földelésű, egyenáramú akkumulátorról üzemeltethető.
- Egy esetleges rövidzárlat elkerülése érdekében vegye le az autó akkumulátorának csatlakozóját a készülék csatlakoztatása előtt.
- A sárga és a piros színű tápvezetéket csak az összes többi vezeték bekötése után csatlakoztassa.
- A piros vezetéket ahhoz a +12V-os csatlakozási ponthoz csatlakoztassa, mely áramot kap, ha az indítókulcs félig van elfordítva.
- **Az összes földelővezetéket közös földelőponthoz csatlakoztassa.**

Ha autójában nincs készenléti gyújtás (ACC) pozíció

— POWER SELECT kapcsoló

A kezelőlap megvilágítását gyárunkban úgy állították be, hogy az akkor is bekapcsoljon, ha Ön éppen nem használja készülékét. Ez terhelést jelenthet az autó akkumulátora számára, **ha a készüléket olyan autóban használja, melynek nincs készenléti gyújtás (ACC) pozíciója.** Ha el akarja kerülni az akkumulátor terhelését, úgy **állítsa a készülék alján található POWER SELECT (tápfeszültség választó) kapcsolót a ⓪ állásba, majd nyomja meg a "reset" gombot.** A kezelőlap megvilágítása így nem kapcsol be, ha Ön nem használja készülékét.

Tudnivaló

Ha a POWER SELECT kapcsoló ⓪ állásba van állítva, úgy nem működik a kezelőlap figyelmeztető funkciója.

Соединения

Предостережение

- Данный прибор сконструирован только для эксплуатации на минусе с постоянным напряжением 12 В.
- Перед подключением отсоедините заземляющую клемму автомобильного аккумулятора для предотвращения короткого замыкания.
- Желтый и красный сетевые провода подсоединяйте только после того, как все остальные провода подсоединены.
- Красный сетевой провод подключайте к положительной клемме 12 В, которая находится под напряжением, когда ключ зажигания в промежуточной позиции.
- **Все заземляющие провода соедините с подходящей точкой на массе.**

Если на Вашем автомобиле нет промежуточной позиции на переключателе зажигания

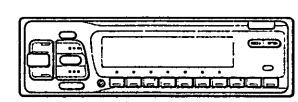
— Переключатель POWER SELECT

Иллюминация на передней панели установлена на заводе таким образом, что она включена даже тогда, когда прибор не находится в рабочем состоянии. Однако, если **Ваш автомобиль не снабжен промежуточной позицией ключа зажигания,** эта установка может вызывать некоторую разрядку автомобильного аккумулятора. Для предотвращения этой разрядки **установите расположенный на дне прибора переключатель POWER SELECT в позицию ⓪, затем нажмите клавишу переустановки.** Теперь иллюминация будет выключена, если прибор не в рабочем состоянии.

Примечание

Сигнал тревоги для передней панели дезактивируется, если переключатель POWER SELECT установлен в позицию ⓪

Change the position with a jeweler's screwdriver, etc.
Przestawienia przełącznika można dokonać przy pomocy śrubokręta jubilerskiego itp.
Променете положението с помощта на фина отвертка или друг инструмент.
Állítsa be a helyes pozíciót egy mini csavarhúzó, vagy más hasonló eszköz segítségével.
Изменяйте позицию с помощью ювелирной отвертки и т.д.



Notes on the control leads

- *The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the ATA (Automatic Tuner Activation) function.*
- *A power antenna without relay box cannot be used with this unit.*

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection

- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.*
- *Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.*

Uwagi na temat przewodów zasilania

- *Przewód zasilania anteny automatycznej (niebieski) dostarcza prąd stały +12 V DC po włączeniu radia.*
- *W połączeniu z tym radiem nie można korzystać z automatycznej anteny nie posiadającej skrzynki przekaźnikowej.*

Zasilanie pamięci sprzętu

Jeżeli podłączyło się żółty wejściowy przewód zasilający, obwód pamięci będzie zawsze zasilany, nawet po wyłączeniu stacyjki.

Uwagi na temat podłączania głośników

- *Przed podłączeniem głośników należy wyłączyć sprzęt.*
- *Należy stosować głośniki o impedancji od 4 do 8 omów, posiadające odpowiednią obciążalność mocową, ponieważ w przeciwnym wypadku można uszkodzić głośniki.*
- *Nie należy podłączać przewodów układu głośników do podwozia pojazdu, ani też podłączać przyłączy prawego głośnika do przyłączy lewego głośnika.*
- *Nie należy podłączać głośników równolegle.*
- *Do gniazd sprzętu przeznaczonych dla podłączenia głośników nie należy podłączać głośników aktywnych (z wbudowanymi wzmacniaczami), ponieważ może to prowadzić do uszkodzenia tych aktywnych głośników. Dlatego też należy podłączać wyłącznie głośniki pasywne do tych gniazd.*

Забележки по проводниците за управление

- *Проводникът за управление на автоматичната антена (син) подава + 12 V прав ток, когато включите апарата.*
- *Автоматична антена без релейна кутия не може да бъде използувана с този апарат.*

Свързване за поддържане на паметта

Когато е свързан жълтия захранващ проводник, към интегралната схема за паметта се подава винаги ток, дори когато ключът за запалване е в изключено положение.

Забележки по свързване на високоговорителите

- *Преди да свържете високоговорителите изключете апарата.*
- *Използувайте високоговорители само със съпротивление от 4 до 8 ома и с мощност, която отговаря на мощността на усилвателя. В противен случай може да повредите високоговорителите.*
- *Не свързвайте клемите на системата на високоговорителите към шасито на автомобила, както и не свързвайте една с друга клемите на десния и на левия високоговорител.*
- *Не се опитвайте да свързвате високоговорителите успоредно.*
- *Въобще не свързвайте никакви активни високоговорители (с вградени усилватели) към клемите за високоговорители на апарата. Ако направите това ще повредите активните високоговорители. Поради това се убедете, че свързвате пасивни високоговорители към клемите на апарата.*

Tudnivalók a vezérlővezetékekről

- *A motoros antenna vezérlővezetéke (kék) +12 V egyenfeszültséget kap, ha bekapcsolja a készüléket vagy az ATA (automatikus rádió aktivizálás) funkciót.*
- *Ha a készülékhez motoros antennát csatlakoztat, úgy kizárólag relédobozzal felszerelt motoros antennát használjon.*

Memóriafenntartás

Ha csatlakoztatja a sárga tápvezetéket, úgy folyamatosan feszültség alatt marad a memória áramkör, még akkor is, ha kikapcsolja a gyújtást.

Tudnivalók a hangszórók csatlakoztatásáról

- *Kérjük kapcsolja ki a készüléket a hangszórók csatlakoztatása előtt.*
- *4-8 ohm impedanciájú, megfelelő teljesítményű hangszórókat használjon, ellenkező esetben ugyanis előfordulhat, hogy a hangszórók károsodnak.*
- *Ne csatlakoztassa a hangszórókat az autó fém szerkezetéhez és ne csatlakoztassa a jobb hangszórót a bal hangszóróhoz.*
- *A hangszórókat semmi esetre se csatlakoztassa párhuzamosan.*
- *Ne csatlakoztasson aktív (beépített erősítővel felszerelt) hangszórókat a készülékhez, ellenkező esetben ugyanis károsodhatnak az aktív hangszórók. A készülékhez csak passzív hangszórókat szabad csatlakoztatni.*

Примечания по управляющим проводам

- *Провод, управляющий питанием антенны (голубой) подает постоянное напряжение + 12 В, если Вы включили прибор.*
- *Электрическая антенна без коробки реле не может быть использована с данным прибором.*

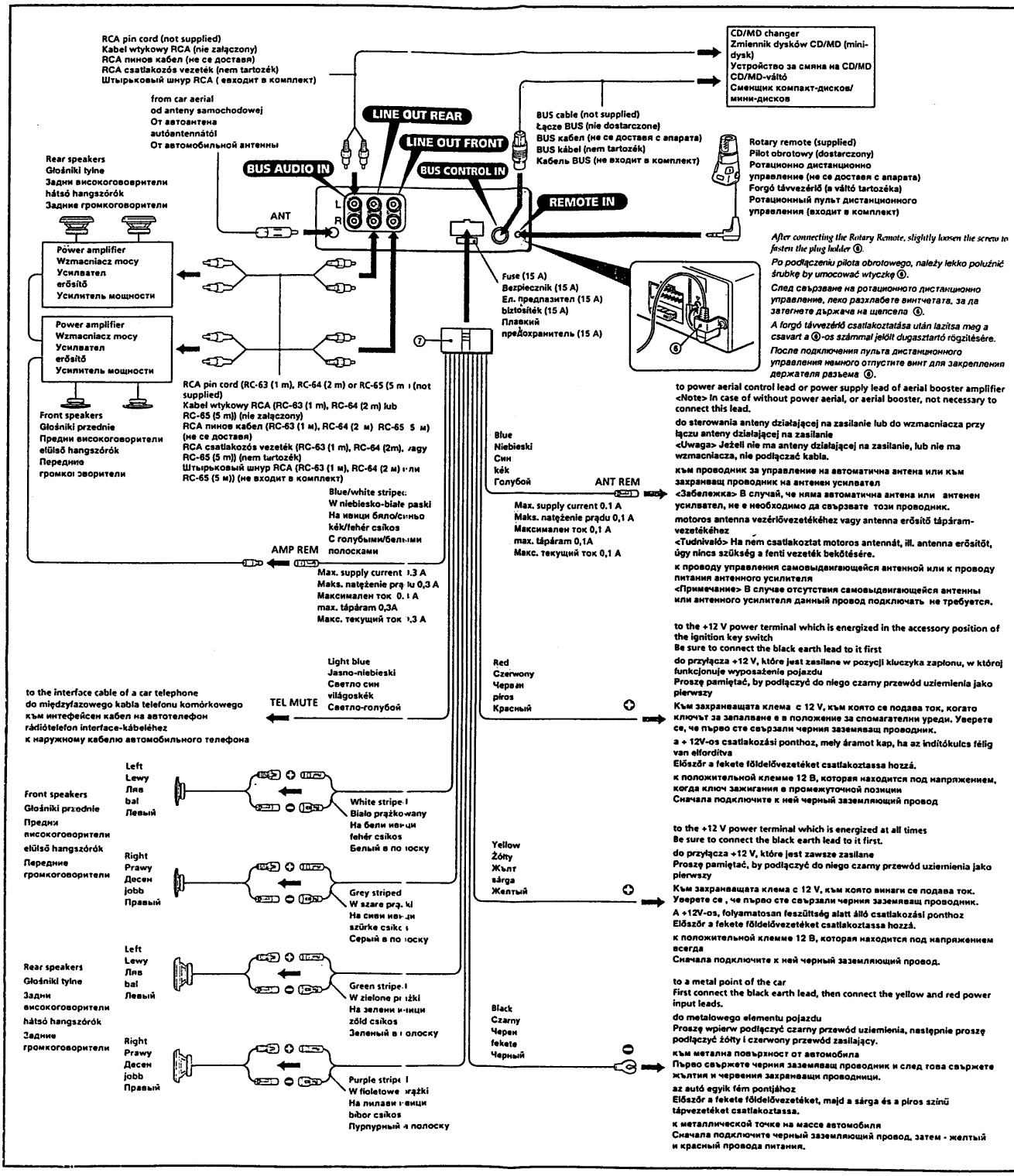
Соединение поддержки памяти

Если желтый сетевой провод подключен, питание будет подаваться для поддержки памяти всегда, даже при выключенном зажигании.

Примечания по подключению громкоговорителей

- *Перед подключением громкоговорителей выключите прибор.*
- *Используйте громкоговорители с сопротивлением от 4 до 8 Ом и с адекватной мощностью. Иначе громкоговорители могут быть повреждены.*
- *Не подсоединяйте клеммы громкоговорителей на массу и не соединяйте клеммы правых громкоговорителей с клеммами левых.*
- *Не пытайтесь подключить громкоговорители параллельно.*
- *Не подключайте активные громкоговорители (со встроенным усилителем) к клеммам громкоговорителей на приборе. Это может повредить активные громкоговорители. Поэтому убедитесь, что подключаете пассивные громкоговорители к данным клеммам.*

Connection example | Przykład podłączenia | Примери за свързвания | Csatlakoztatási példák | Соединения в примере


RCA pin cord (not supplied)
Kabel wtykowy RCA (nie załączony)
RCA пинов кабел (не се доставя)
RCA csatlakozós vezeték (nem tartozék)
Штырьковый шнур RCA (евходит в комплект)
from car aerial
od anteny samochodowej
От автоантена
autóantennától
От автомобильной антенны
CD/MD changer
Zmiennik dysków CD/MD (mini-dysk)
Устройство за смяна на CD/MD
CD/MD-váltó
Сменщик компакт-дисков/мини-дисков
BUS cable (not supplied)
Łącze BUS (nie dostarczone)
BUS кабел (не се доставя с апарата)
BUS kábel (nem tartozék)
Кабель BUS (не входит в комплект)
LINE OUT REAR
LINE OUT FRONT
BUS AUDIO IN
BUS CONTROL IN
REMOTE IN
ANT
L
R
Rotary remote (supplied)
Pilot obrotowy (dostarczony)
Ротационно дистанционно управление (не се доставя с апарата)
Forgó távvezérlő (a váltó tartozéka)
Ротационный пульт дистанционного управления (входит в комплект)
Rear speakers
Głośniki tylne
Задни високоговорители
hátsó hangszórók
Задние громкоговорители
Power amplifier
Wzmacniacz mocy
Усилвател
erősítő
Усилитель мощности
Power amplifier
Wzmacniacz mocy
Усилвател
erősítő
Усилитель мощности
Front speakers
Głośniki przednie
Предни високоговорители
elülső hangszórók
Передние громкоговорители
After connecting the Rotary Remote, slightly loosen the screw to fasten the plug holder ⑥.
Po podłączeniu pilota obrotowego, należy lekko poluźnić śrubkę by umocować wtyczkę ⑥.
След свързване на ротационното дистанционно управление, леко разхлабете винтчетата, за да затегнете държача на щепсела ⑥.
A forgó távvezérlő csatlakoztatása után lazítsa meg a csavart a ⑥-os számmal jelölt dugasztartó rögzítésére.
После подключения пульта дистанционного управления немного отпустите винт для закрепления держателя разъема ⑥.
Fuse (15 A)
Bezpiecznik (15 A)
Ел. предпазител (15 A)
biztosíték (15 A)
Плавкий предохранитель (15 A)
RCA pin cord (RC-63 (1 m), RC-64 (2 m) or RC-65 (5 m) (not supplied)
Kabel wtykowy RCA (RC-63 (1 m), RC-64 (2 m) lub RC-65 (5 m)) (nie załączony)
RCA пинов кабел (RC-63 (1 м), RC-64 (2 м) RC-65 5 м) (не се доставя)
RCA csatlakozós vezeték (RC-63 (1 m), RC-64 (2m), vagy RC-65 (5 m)) (nem tartozék)
Штырьковый шнур RCA (RC-63 (1 м), RC-64 (2 м) или RC-65 (5 м)) (не входит в комплект)
to power aerial control lead or power supply lead of aerial booster amplifier
<Note> In case of without power aerial, or aerial booster, not necessary to connect this lead.
do sterowania anteny działającej na zasilanie lub do wzmacniacza przy łączu anteny działającej na zasilanie
<Uwaga> Jeżeli nie ma anteny działającej na zasilanie, lub nie ma wzmacniacza, nie podłączać kabla.
към проводник за управление на автоматична антена или към захранващ проводник на антенен усилвател
<Забележка> В случай, че няма автоматична антена или антенен усилвател, не е необходимо да свързвате този проводник.
motoros antenna vezérlővezetékéhez vagy antenna erősítő táparam-vezetékéhez
<Tudnivaló> Ha nem csatlakoztat motoros antennát, ill. antenna erősítőt, úgy nincs szükség a fenti vezeték bekötésére.
к проводу управления самовыдвигающейся антенной или к проводу питания антенного усилителя
<Примечание> В случае отсутствия самовыдвигающейся антенны или антенного усилителя данный провод подключать не требуется.
Blue
Niebieski
Син
kék
Голубой
ANT REM
Max. supply current 0.1 A
Maks. natężenie prądu 0,1 A
Максимален ток 0,1 A
max. táparam 0,1A
Макс. текущий ток 0,1 A
Blue/white striped
W niebiesko-białe paski
На вити бяло/синьо
kék/fehér csíkos
С голубыми/белыми полосками
AMP REM
Max. supply current 0.3 A
Maks. natężenie prądu 0,3 A
Максимален ток 0.1 A
max. táparam 0,3A
Макс. текущий ток 0,3 A
to the +12 V power terminal which is energized in the accessory position of the ignition key switch
Be sure to connect the black earth lead to it first
do przyłącza +12 V, które jest zasilane w pozycji kluczyka zapłonu, w której funkcjonuje wyposażenie pojazdu
Proszę pamiętać, by podłączyć do niego czarny przewód uziemienia jako pierwszy
Към захранващата клема с 12 V, към която се подава ток, когато ключът за запалване е в положение за спомагателни уреди. Уверете се, че първо сте свързали черния заземяващ проводник.
a + 12V-os csatlakozási ponthoz, mely áramot kap, ha az indítókulcs félig van elforditva
Először a fekete földelővezetéket csatlakoztassa hozzá.
к положительной клемме 12 В, которая находится под напряжением, когда ключ зажигания в промежуточной позиции
Сначала подключите к ней черный заземляющий провод
Red
Czerwony
Червен
piros
Красный
Light blue
Jasno-niebieski
Светло син
világoskék
Светло-голубой
to the interface cable of a car telephone
do międzyfazowego kabla telefonu komórkowego
към интефейсен кабел на автотелефон
rádiótelefon interface-kábelhez
к наружному кабелю автомобильного телефона
TEL MUTE
Front speakers
Głośniki przednie
Предни високоговорители
elülső hangszórók
Передние громкоговорители
Left
Lewy
Ляв
bal
Левый
White striped
Biało prążkowany
На бели ивици
fehér csíkos
Белый в полоску
Right
Prawy
Десен
jobb
Правый
Grey striped
W szare prążki
На сиви ивици
szürke csíkos
Серый в полоску
to the +12 V power terminal which is energized at all times
Be sure to connect the black earth lead to it first.
do przyłącza +12 V, które jest zawsze zasilane
Proszę pamiętać, by podłączyć do niego czarny przewód uziemienia jako pierwszy
Към захранващата клема с 12 V, към която винаги се подава ток. Уверете се, че първо сте свързали черния заземяващ проводник.
A +12V-os, folyamatosan feszültség alatt álló csatlakozási ponthoz
Először a fekete földelővezetéket csatlakoztassa hozzá.
к положительной клемме 12 В, которая находится под напряжением всегда
Сначала подключите к ней черный заземляющий провод.
Yellow
Żółty
Жълт
sárga
Желтый
Rear speakers
Głośniki tylne
Задни високоговорители
hátsó hangszórók
Задние громкоговорители
Left
Lewy
Ляв
bal
Левый
Green striped
W zielone prążki
На зелени ивици
zöld csíkos
Зеленый в полоску
Right
Prawy
Десен
jobb
Правый
Purple striped
W fioletowe prążki
На лилави ивици
bibor csíkos
Пурпурный в полоску
to a metal point of the car
First connect the black earth lead, then connect the yellow and red power input leads.
do metalowego elementu pojazdu
Proszę wpierw podłączyć czarny przewód uziemienia, następnie proszę podłączyć żółty i czerwony przewód zasilający.
към метална повърхност от автомобила
Първо свържете черния заземяващ проводник и след това свържете жълтия и червения захранващи проводници.
az autó egyik fém pontjához
Először a fekete földelővezetéket, majd a sárga és a piros szinű tápvezetéket csatlakoztassa.
к металлической точке на массе автомобиля
Сначала подключите черный заземляющий провод, затем - желтый и красный провода питания.
Black
Czarny
Черен
fekete
Черный

Reset button

When the installation and connections are over, be sure to press the reset button with a ballpoint pen etc.

Przycisk Reset

Po zakończeniu montażu i podłączenia radia należy pamiętać o wciśnięciu przy pomocy długopisu itp. przycisku reset (powrót do pierwotnego ustawienia).

Бутон Reset

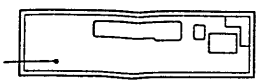
След като завършите инсталирането и свързването, обезателно натиснете бутона за промяна на настройката с върха на химикалка или нещо друго.

Reset gomb

Ha befejezte készüléke beszerelését és csatlakoztatását, feltétlenül nyomja meg a reset gombot egy golyóstollal, vagy más hasonló eszközzel.

Клавиша переустановки

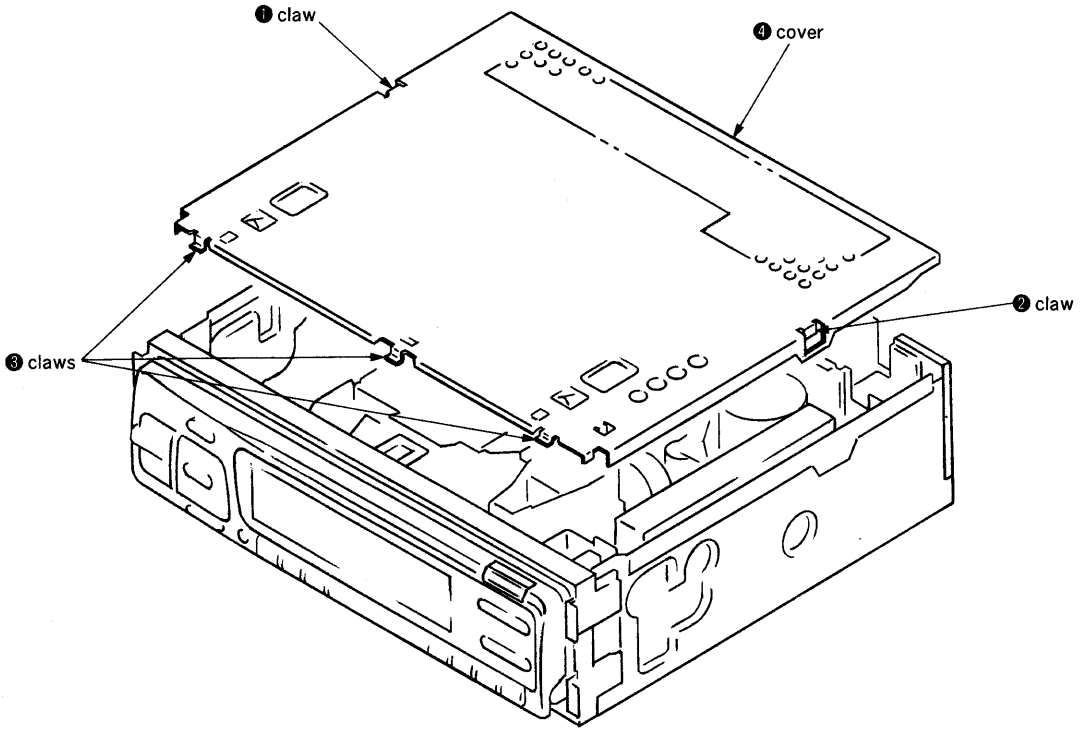
Когда установка и подключения завершены, нажмите клавишу переустановки с помощью шариковой ручки и т.д.



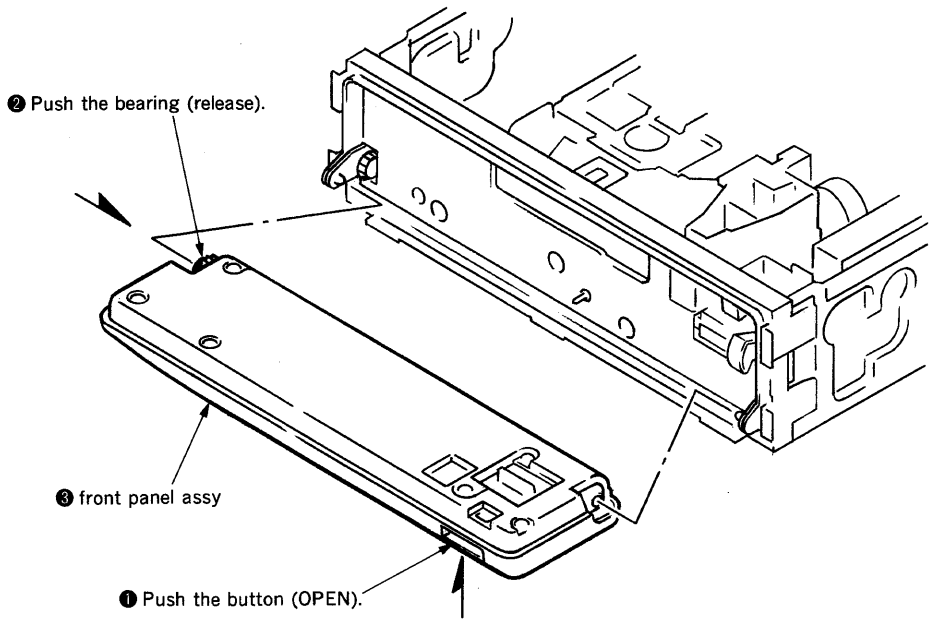
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

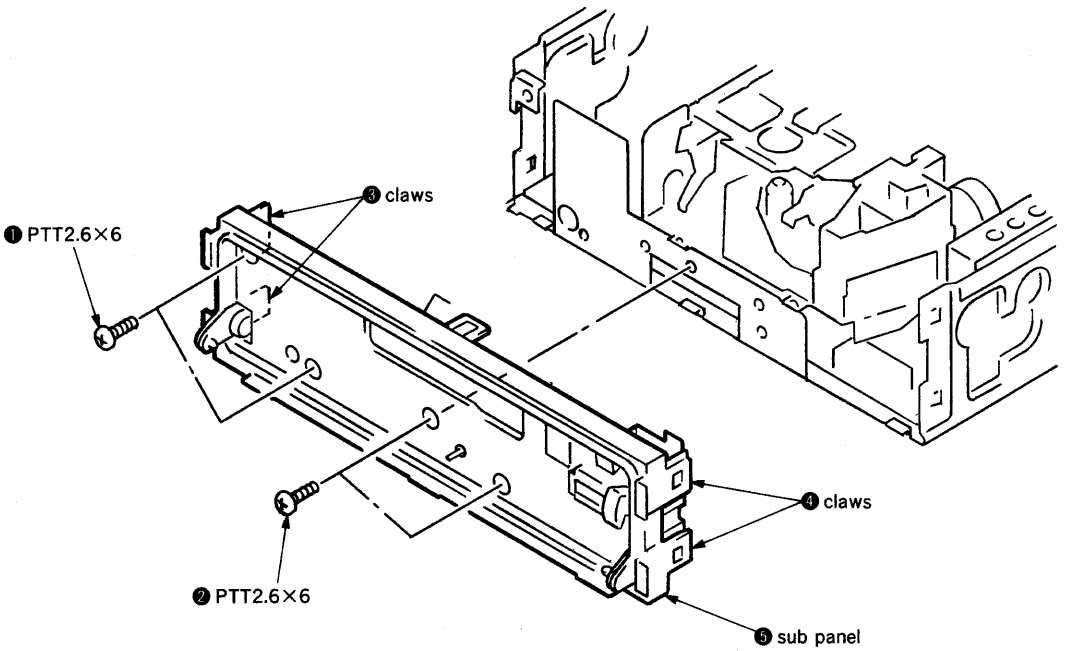
2-1. COVER



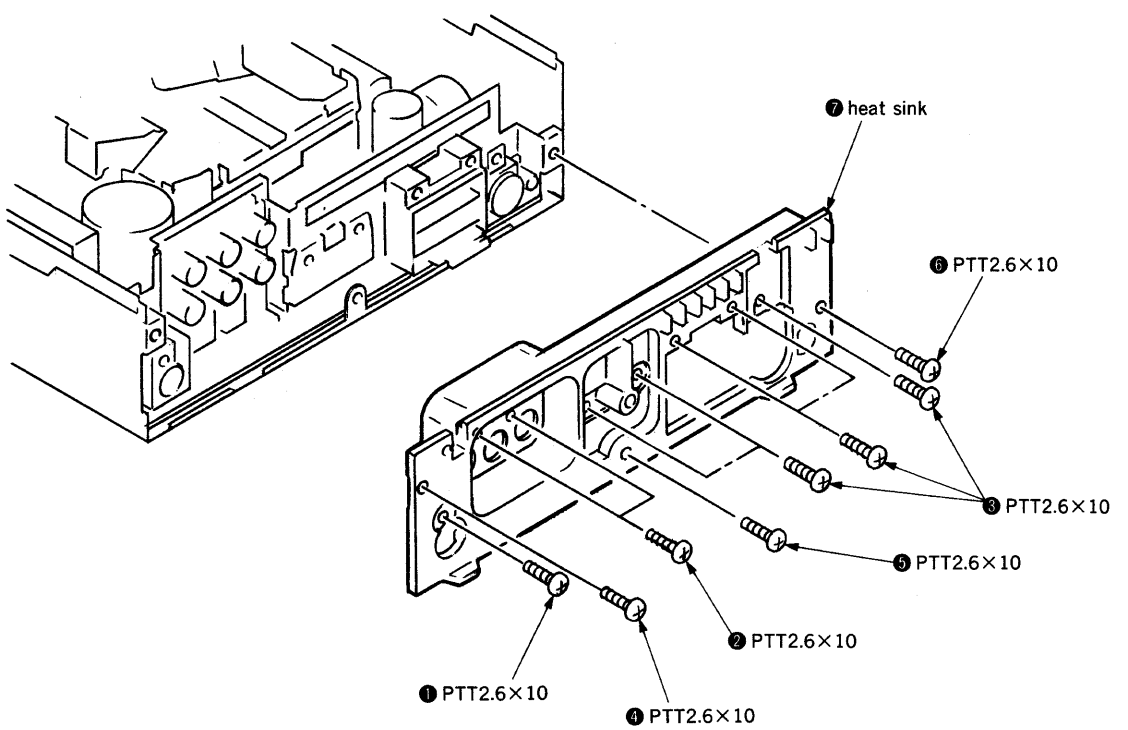
2-2. FRONT PANEL ASSY



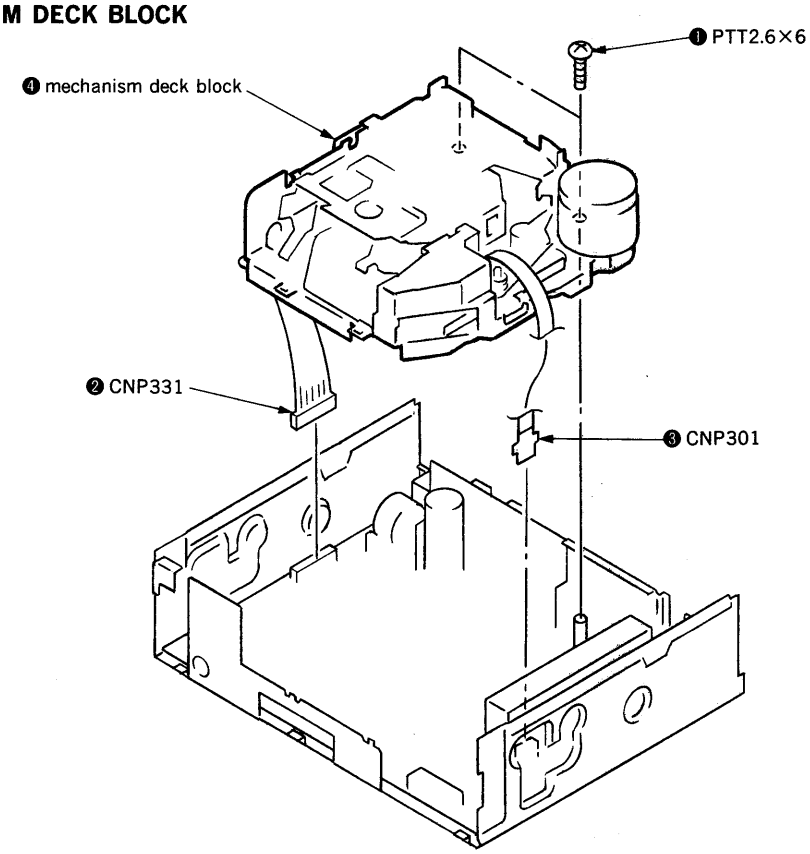
2-3. SUB PANEL



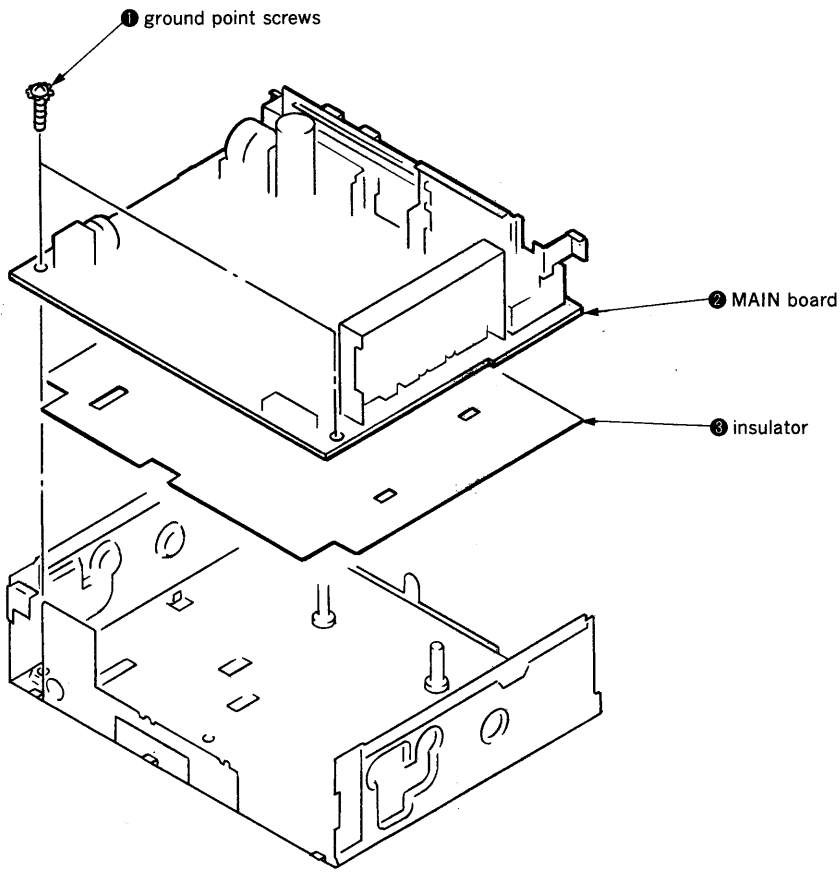
2-4. HEAT SINK



2-5. MECHANISM DECK BLOCK



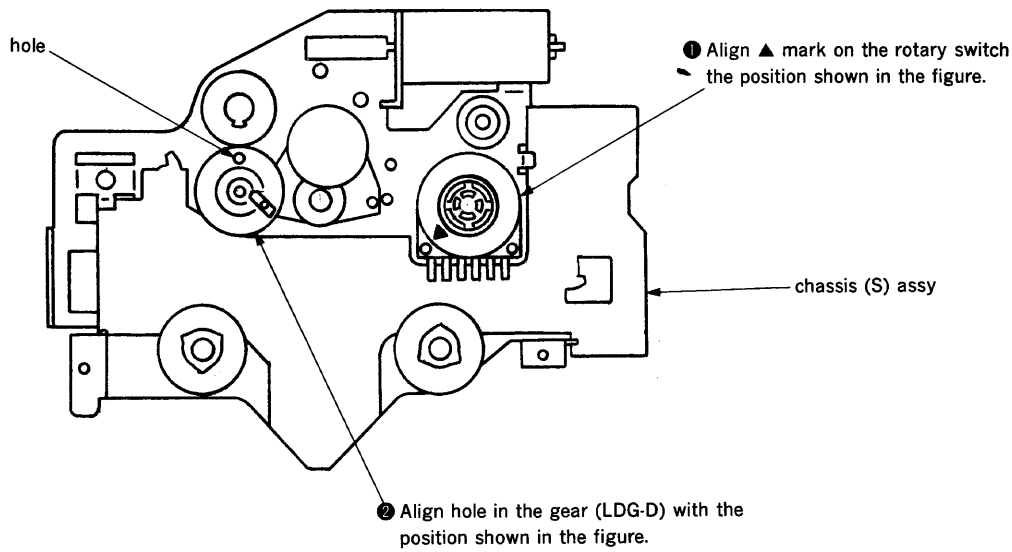
2-6. MAIN BOARD



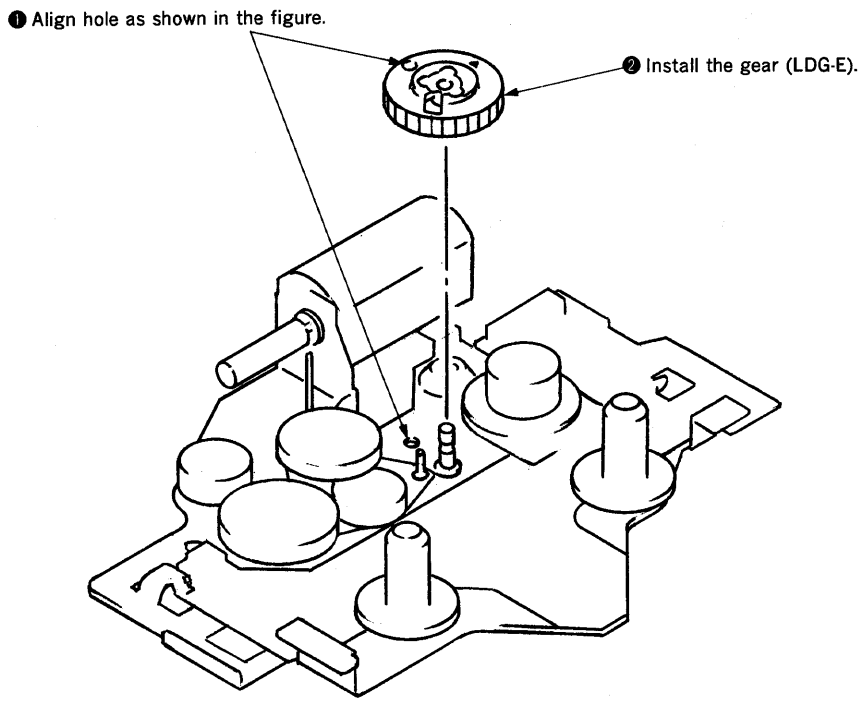
SECTION 3
ASSEMBLY OF MECHANISM DECK

Note : Follow the assembly procedure in the numerical order given.

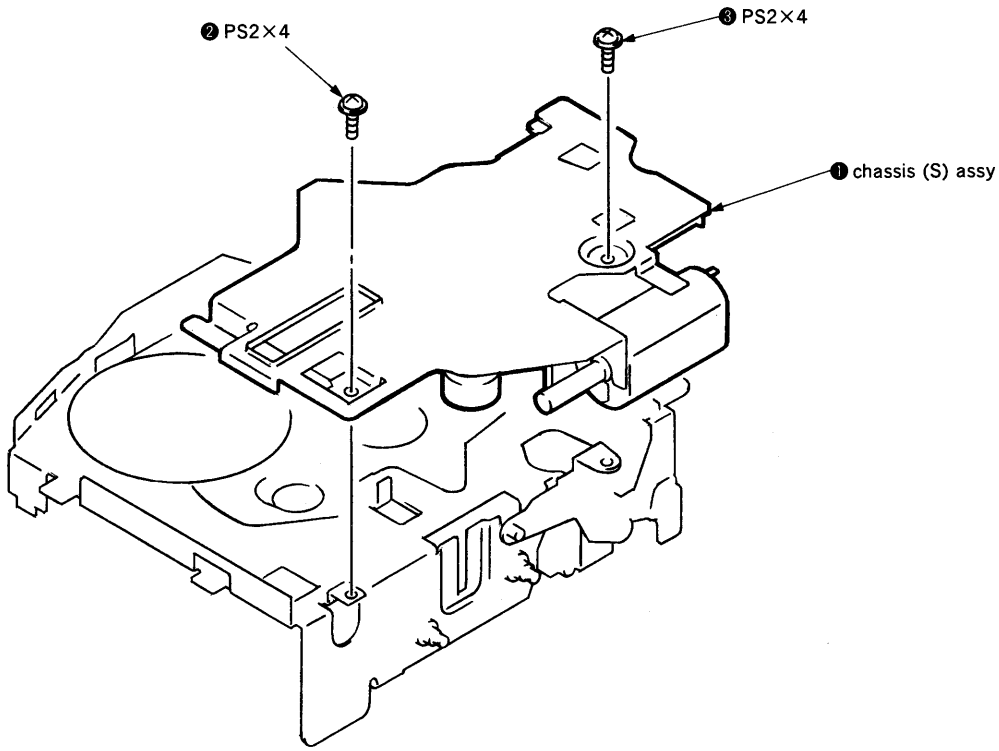
3-1. ALIGNMENT OF ROTARY SWITCH


hole
❶ Align ▲ mark on the rotary switch to the position shown in the figure.
chassis (S) assy
❷ Align hole in the gear (LDG-D) with the position shown in the figure.

3-2. GEAR (LDG-E)

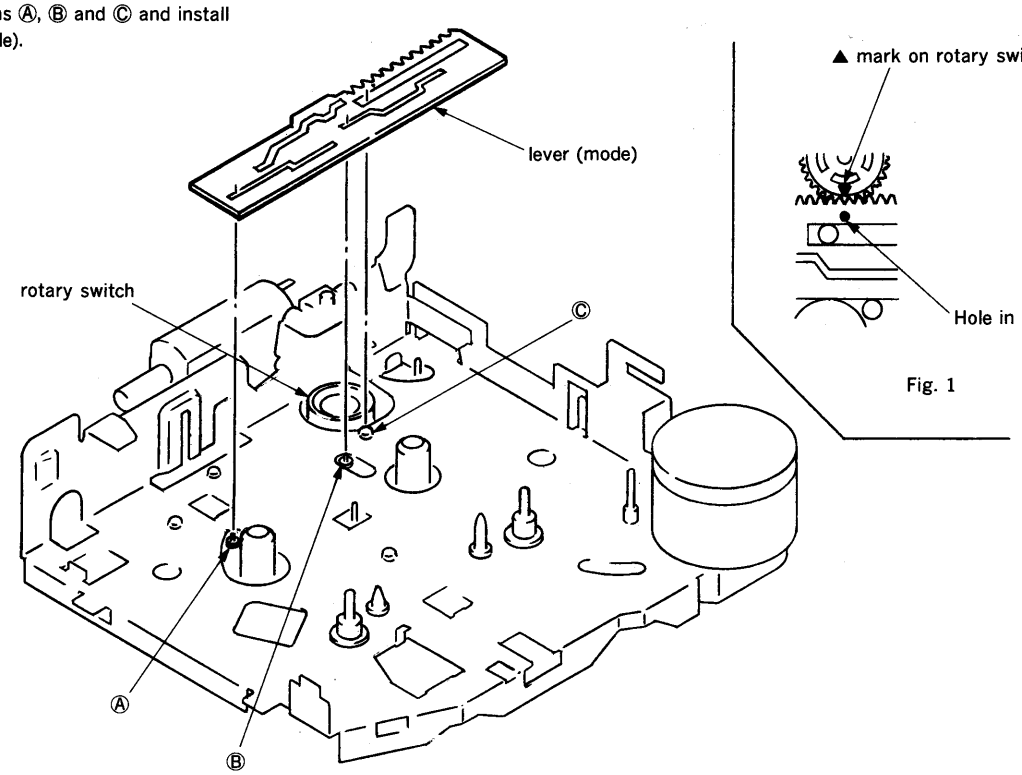


3-3. CHASSIS (S) ASSY



3-4. LEVER (MODE)

1) Align ▲ mark on the rotary switch with hole in the lever (mode). (See Fig. 1)
2) Fit on positions Ⓐ, Ⓑ and Ⓒ and install the lever (mode).



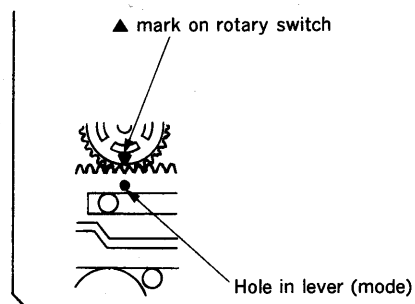
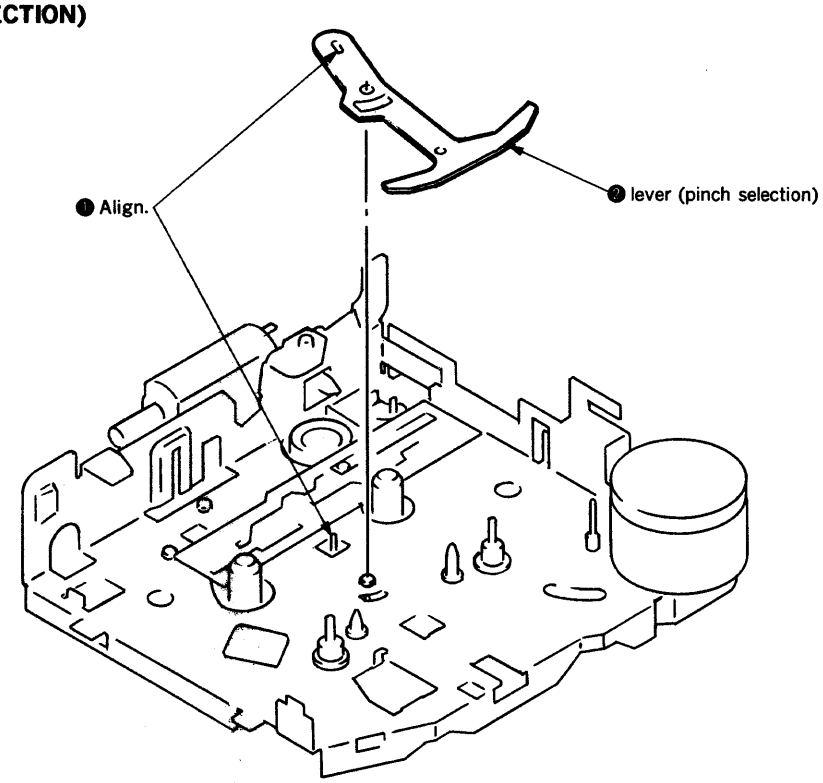
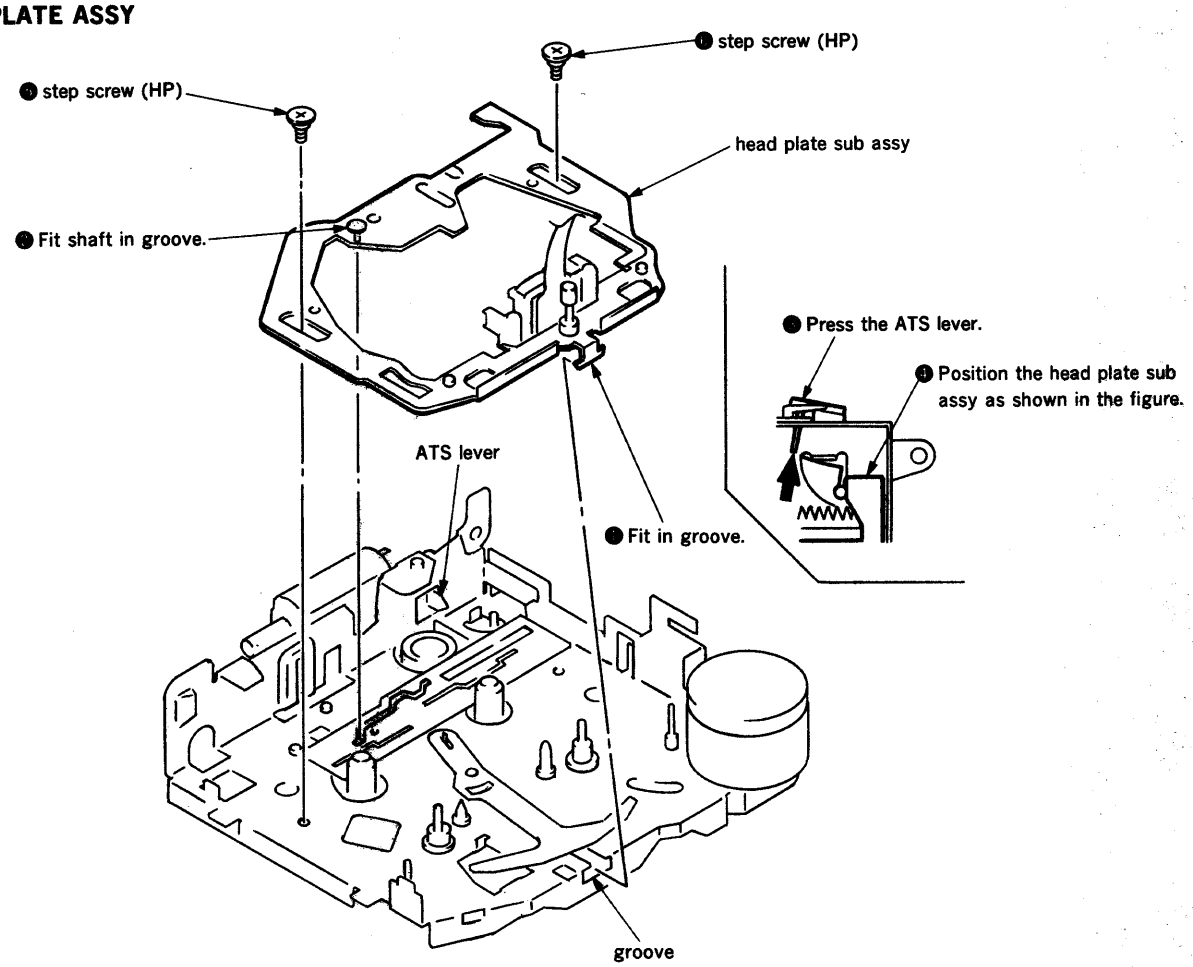


Fig. 1

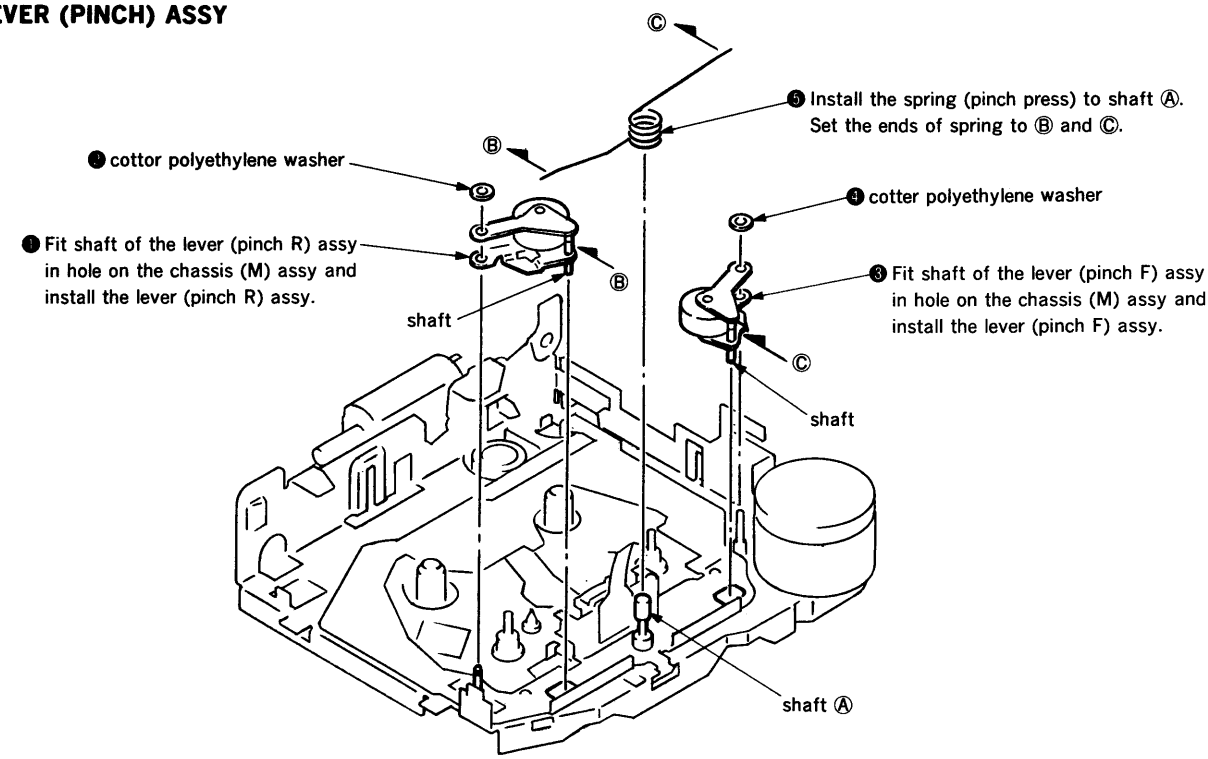
3-5. LEVER (PINCH SELECTION)



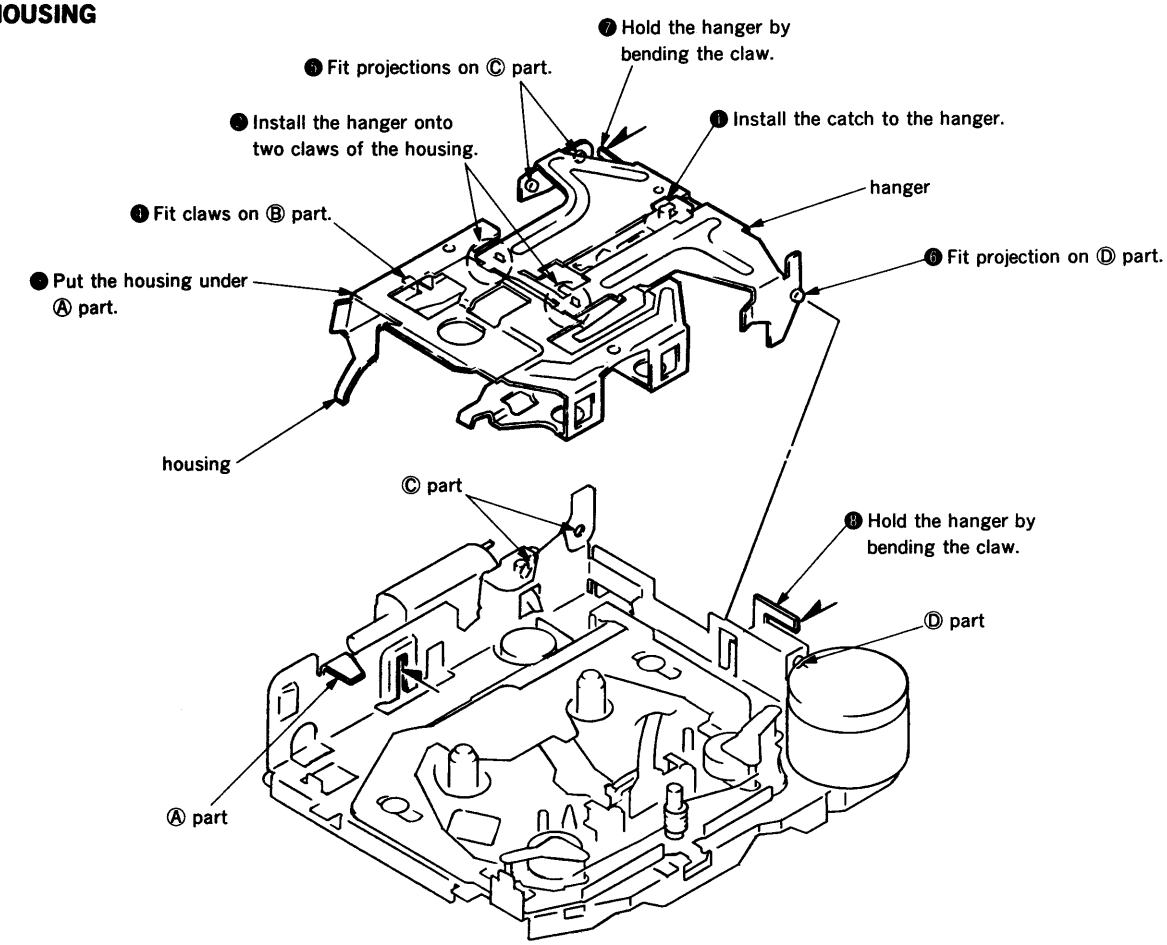
3-6. HEAD PLATE ASSY


❶ step screw (HP)
❸ step screw (HP)
head plate sub assy
❷ Fit shaft in groove.
❹ Press the ATS lever.
❺ Position the head plate sub assy as shown in the figure.
ATS lever
❻ Fit in groove.
groove

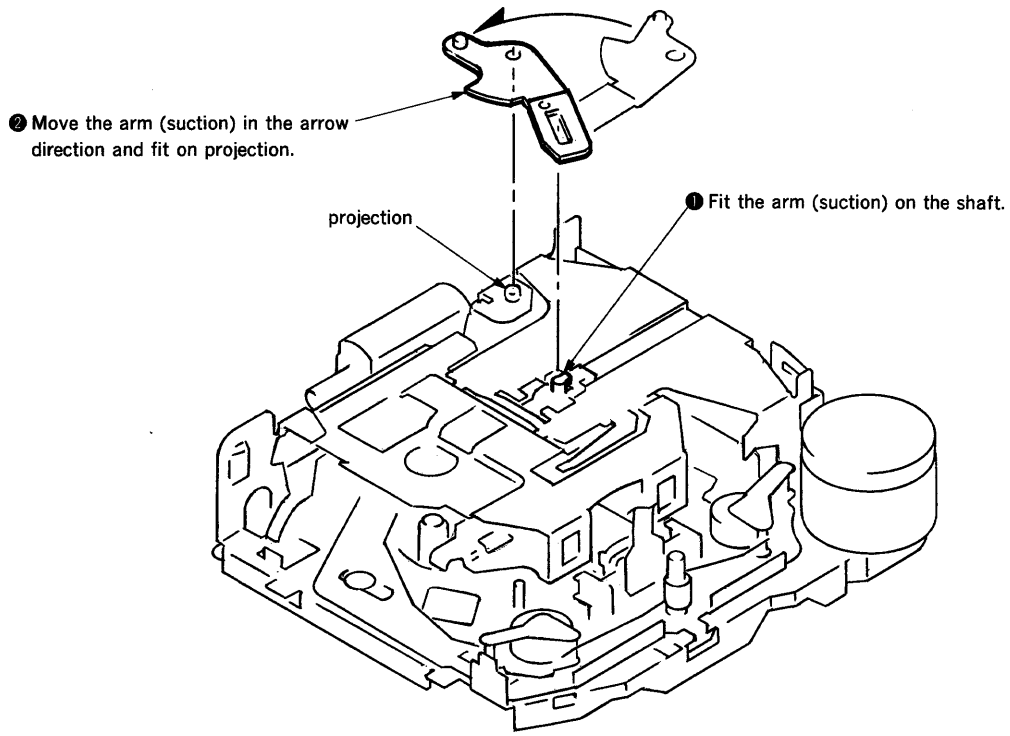
3-7. LEVER (PINCH) ASSY


Ⓒ
❺ Install the spring (pinch press) to shaft Ⓐ.
Set the ends of spring to Ⓑ and Ⓒ.
Ⓑ
❷ cottor polyethylene washer
❹ cotter polyethylene washer
❶ Fit shaft of the lever (pinch R) assy
in hole on the chassis (M) assy and
install the lever (pinch R) assy.
Ⓑ
❸ Fit shaft of the lever (pinch F) assy
in hole on the chassis (M) assy and
install the lever (pinch F) assy.
shaft
Ⓒ
shaft
shaft Ⓐ

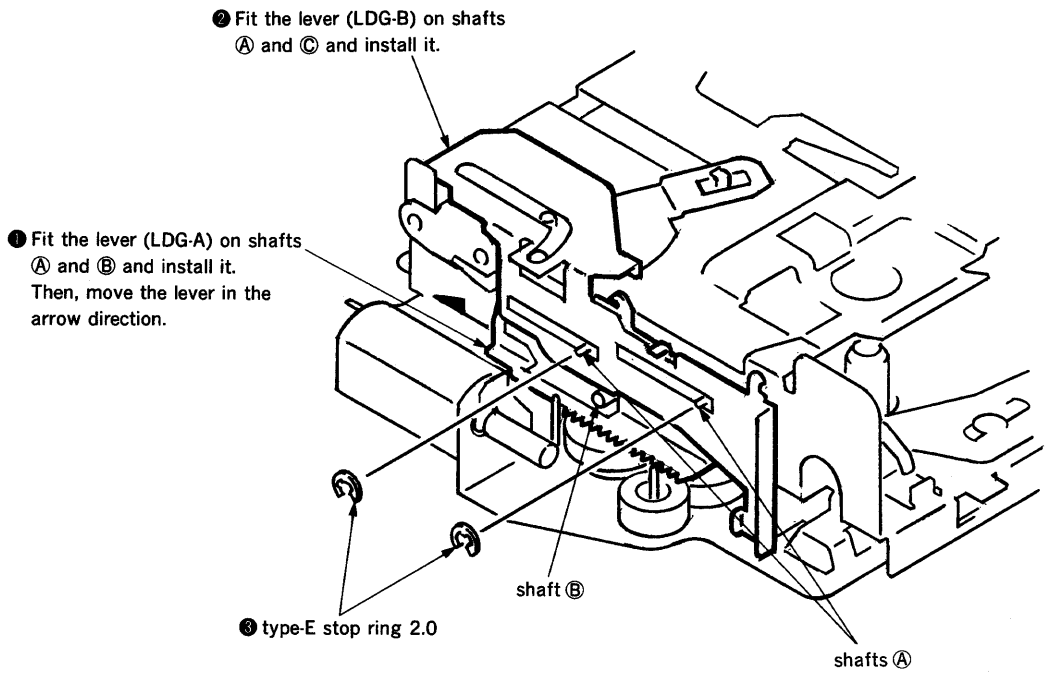
3-8. HOUSING



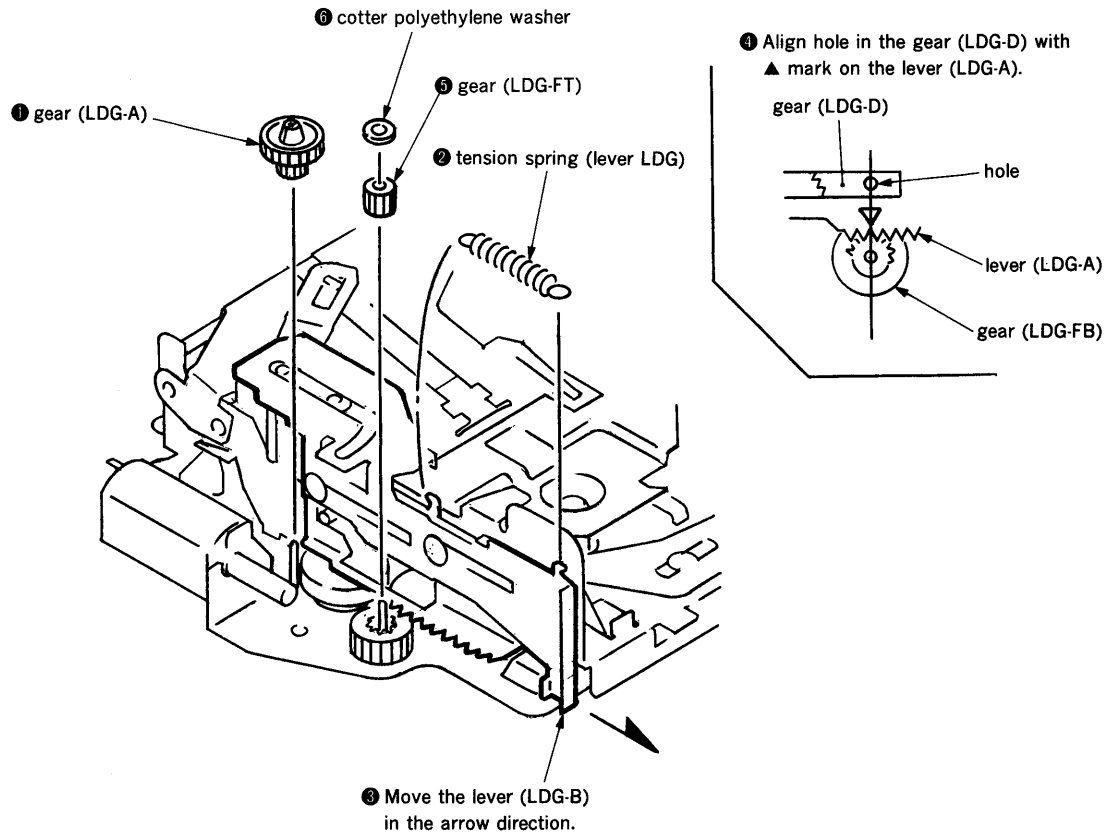
3-9. ARM (SUCTION)



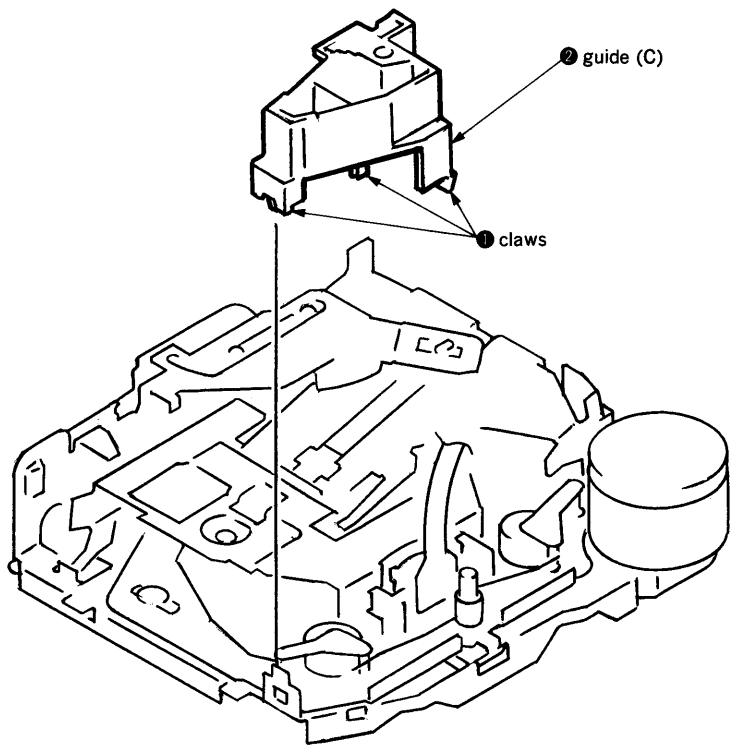
3-10. LEVER (LDG-B)


❷ Fit the lever (LDG-B) on shafts Ⓐ and Ⓒ and install it.
❶ Fit the lever (LDG-A) on shafts Ⓐ and Ⓑ and install it. Then, move the lever in the arrow direction.
shaft Ⓑ
❸ type-E stop ring 2.0
shafts Ⓐ

3-11. GEAR (LDG-FT)


❻ cotter polyethylene washer
❺ gear (LDG-FT)
❶ gear (LDG-A)
❷ tension spring (lever LDG)
❸ Move the lever (LDG-B) in the arrow direction.
❹ Align hole in the gear (LDG-D) with ▲ mark on the lever (LDG-A).
gear (LDG-D)
hole
lever (LDG-A)
gear (LDG-FB)

3-12. GUIDE (C)



SECTION 4
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Wipe the following components with an absorbent cotton cloth moistened with alcohol before adjustment:
   PB head　　Pinch roller
   Idler　　Rubber belt
   Capstan
2. Demagnetize the PB head using a head demagnetizer.
3. Be careful not to use a magnetized screwdriver.
4. After the adjustment is completed, lock the adjustment parts using screws.
5. Unless otherwise specified, make adjustments at the specified voltage (14.4V).

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	35−65g•cm (0.49−0.90 oz•inch)
FWD Back Tension		0.5−5.0g•cm (0.01−0.07 oz•inch)
REV	CQ-102RC	35−65g•cm (0.49−0.90 oz•inch)
REV Back Tension		0.5−5.0g•cm (0.01−0.07 oz•inch)
FF, REW	CQ-201B	60−200g•cm (0.83−2.78 oz•inch)

Tape Tension Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 60g (more than 2.12 oz)
REV	CQ-403R	

SECTION 5
ELECTRICAL ADJUSTMENTS

TEST MODE

This set have the test mode function. In the test mode, FM Auto Scan/Stop Level and MW Auto Scan/Stop Level adjustments can be performed easier than it in ordinary procedure.

〈Set the Test Mode〉

1. Set the "OFF" mode.
2. Push the preset [4] button.
3. Push the preset [5] button.
4. Press the preset [1] button for more than two seconds.
5. Then the display indicates all lights, the test mode is set.

〈Release the Test mode〉

1. Push the "OFF" button.

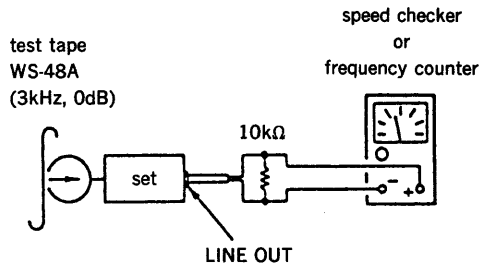
See the adjustment location from on page 24 for the adjustment.

DECK SECTION　**0dB=0.775V**

Tape Speed Adjustment

Procedure:

1. Put the set into the FWD PB mode.



Specification: Constant speed

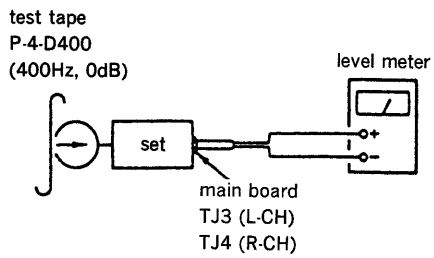
Speed checker	Frequency counter
−1.5 to +2.5%	2,955 to 3,075Hz

Adjustment Location: See page 24.

DOLBY Level Adjustment

Setting:

SHIFT button : ON (light up SET UP and PLAY MODE)
Preset [3] (PLAY MODE) button : NR OFF
SOUND (BAS) button : Center
SOUND (TRE) button : Center
SOUND (BAL) button : Center
SOUND (FAD) button : Center
SOUND (VOL) button : Maximum



Procedure:

1. Put the set into the FWD PB mode.
2. Adjust RV221 (L-CH) and RV121 (R-CH) so that level meter reading is −6±0.5 dB (0.37 to 0.41V).

Adjustment Location: See page 24.

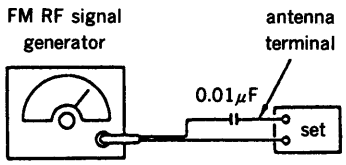
TUNER SECTION **0dB=1μV**

Cautions during repair
When the tuner unit is defective, replace it by a new one because its internal block is difficult to repair.

FM Auto Scan/Stop Level Adjustment

Setting :

SOURCE button : FM

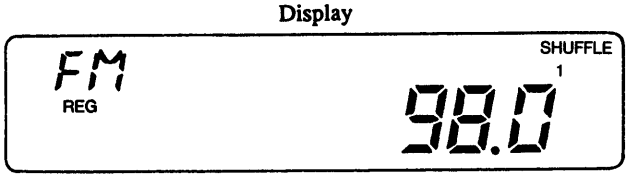


Carrier frequency : 98.0MHz
Output level : 22dB (12.6μV)
Mode : mono
Modulation : 1kHz, 22.5kHz deviation (30%)

Procedure :

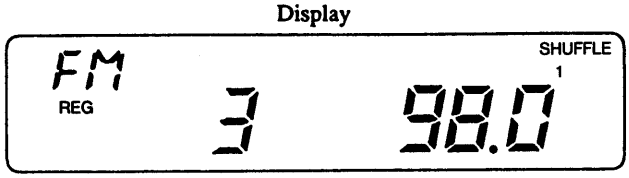
1. Set to the test mode. (See page 20.)
2. Push the [SOURCE] button and set to FM.

Display



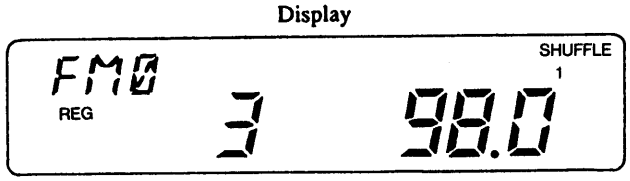
3. Push the preset [3] button.

Display



4. Adjust with the volume RV2 on TU2 so that the "FM" indication turns to "FM0" indication on the display window.
   But, in case of already indicated "FM0", turn the RV2 so that put out light "0" indication and adjustment.

Display

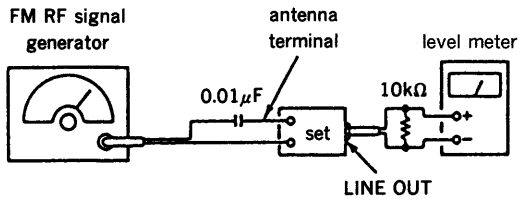


Adjustment Location : See page 24.

FM Noise Focus Adjustment

Setting :

SOURCE button : FM



Carrier frequency : 98.0MHz
Output level : 60dB (1mV)
Mode : mono
Modulation : 1kHz, 75kHz deviation (100%)

Procedure :

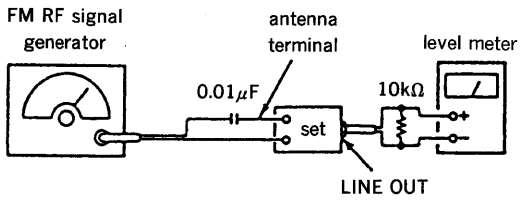
1. Tune the 98.0MHz.
2. The then output level is supposing that 0dB.
3. Adjust with the volume RV3 on TU2 so that the output level is −32±1dB then signal generator input set to −20dB.

Adjustment Location : See page 24.

FM Stereo Separation Adjustment

Setting :

SOURCE button : FM



Carrier frequency : 98.0MHz
Output level : 70dB (3.2mV)
Mode : stereo
Modulation : main : 1kHz, 33.75kHz deviation (45%)
sub : 1kHz, 33.75kHz deviation (45%)
19kHz pilot : 7.5kHz deviation (10%)

Procedure :

FM stereo signal generator output channel	Level meter connection	Level meter reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV4 on TU2 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV4 on TU2 for minimum reading.

L-CH Stereo separation : Ⓐ−Ⓑ
R-CH Stereo separation : Ⓒ−Ⓓ
The separations of both channels should be equal.

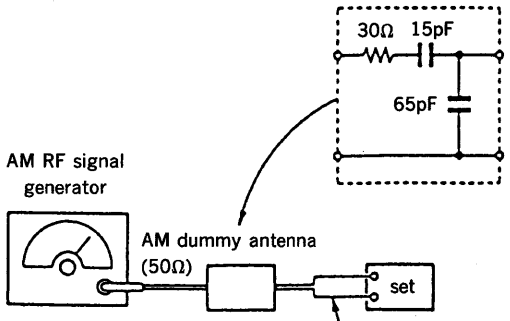
Specification : Separation more than 30dB

Adjustment Location : See page 24.

MW Auto Scan/Stop Level Adjustment

Setting :

SOURCE button : MW

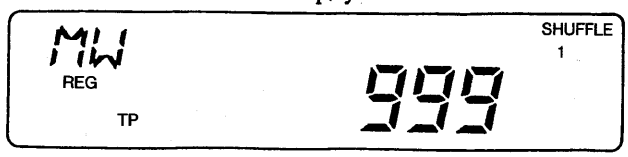


Carrier frequency : 999kHz
30% amplitude modulation by 1kHz signal
Output level : 33dB (44.7μV)

Procedure :

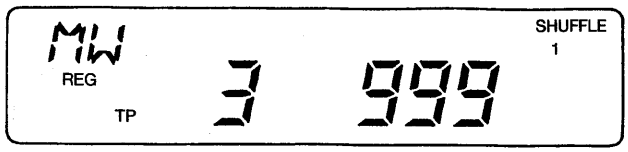
1. Set to the test mode. (See page 20.)
2. Push the [SOURCE] button and set to MW.

Display



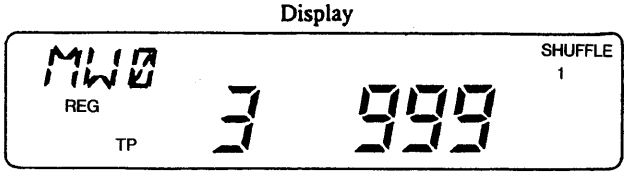
3. Push the preset [3] button.

Display



4. Adjust with the volume RV1 on TU2 so that the "MW" indication turns to "MW0" indication on the display window.
   But, in case of already indicated "MW0", turn the RV1 so that put out light "0" indication and adjustment.

Display

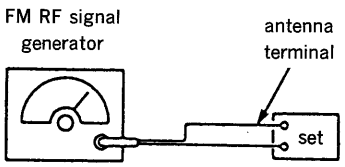


Adjustment Location : See page 24.

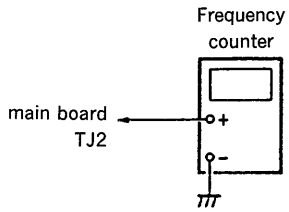
FM Polar VCO Adjustment

Setting :

SOURCE button : FM



Carrier frequency : 69.5MHz (FM2 : 3CH)
Output level : 60dB (1mV)



Procedure :

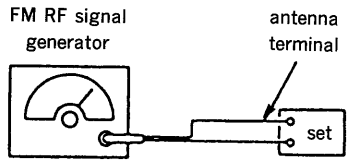
1. Connect the frequency counter to the TJ2 on main board.
2. Adjust RV801 so that the reading on the frequency counter becomes to 31.25±0.1kHz.

Adjustment Location : See page 24.

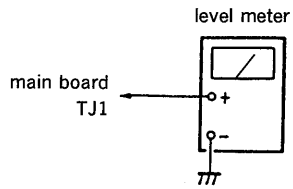
FM Polar Pilot Adjustment

Setting :

SOURCE button : FM



Carrier frequency : 69.5MHz (FM2 : 3CH)
Output level : 60dB (1mV)



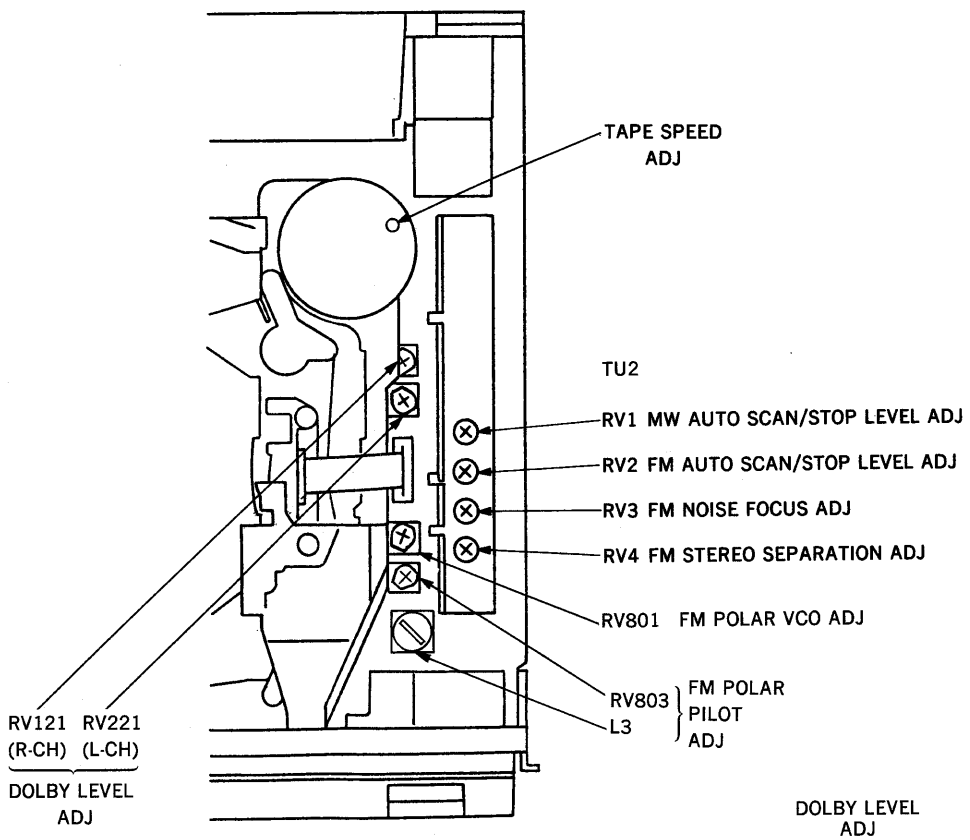
Procedure :

1. Connect the level meter to the TJ1 on main board.
2. Set the modulation frequency of the FM RF signal generator to 1kHz (10kHz div.).
3. Then output level is supposing that 0dB.
4. Set the modulation frequency of the FM RF signal generator to 31.25kHz (10kHz div.).
5. Adjust L3 so that the reading on the level meter becomes to maximum.
6. Adjust RV803 so that the reading on the level meter becomes to 13.0±0.5dB.

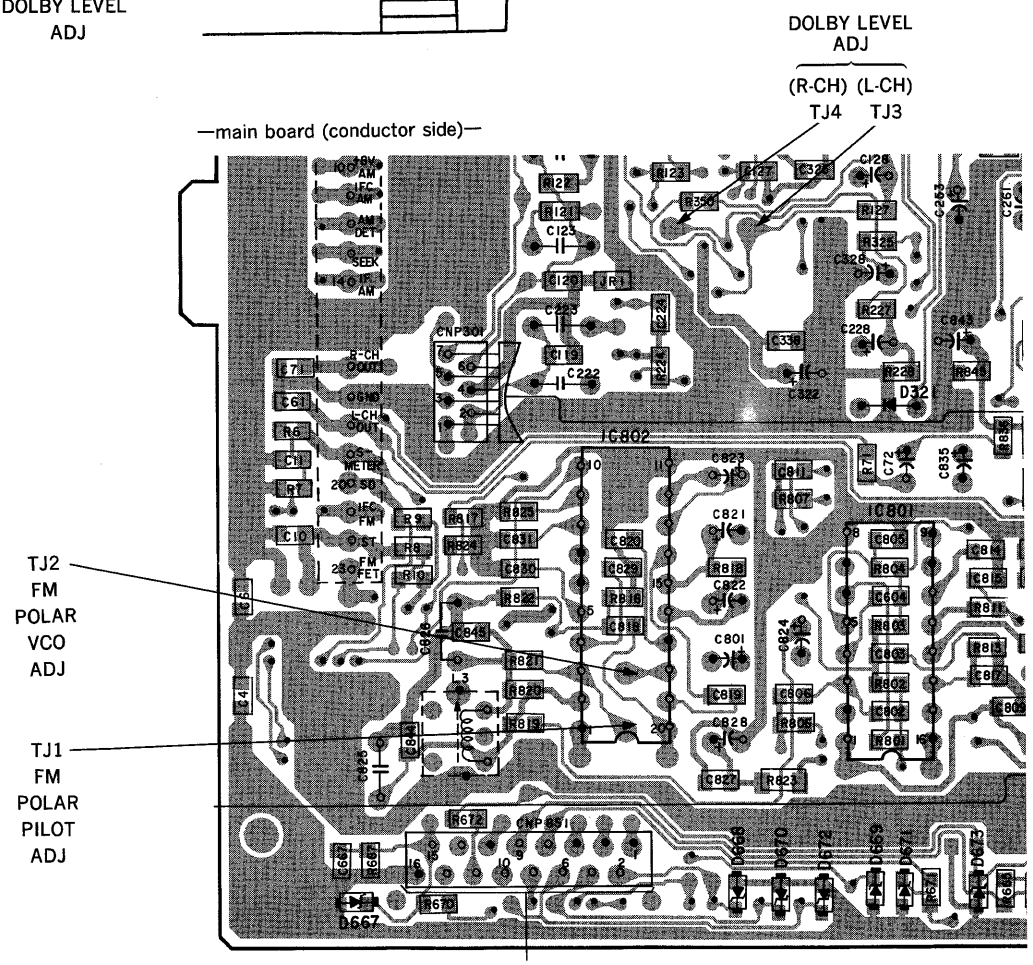
Adjustment Location : See page 24.

Adjustment Location :

—SET UPPER VIEW—


TAPE SPEED ADJ
TU2
RV1 MW AUTO SCAN/STOP LEVEL ADJ
RV2 FM AUTO SCAN/STOP LEVEL ADJ
RV3 FM NOISE FOCUS ADJ
RV4 FM STEREO SEPARATION ADJ
RV801 FM POLAR VCO ADJ
RV803 FM POLAR PILOT ADJ
L3 ADJ
RV121 (R-CH) RV221 (L-CH)
DOLBY LEVEL ADJ

—main board (conductor side)—



SECTION 6
DIAGRAMS

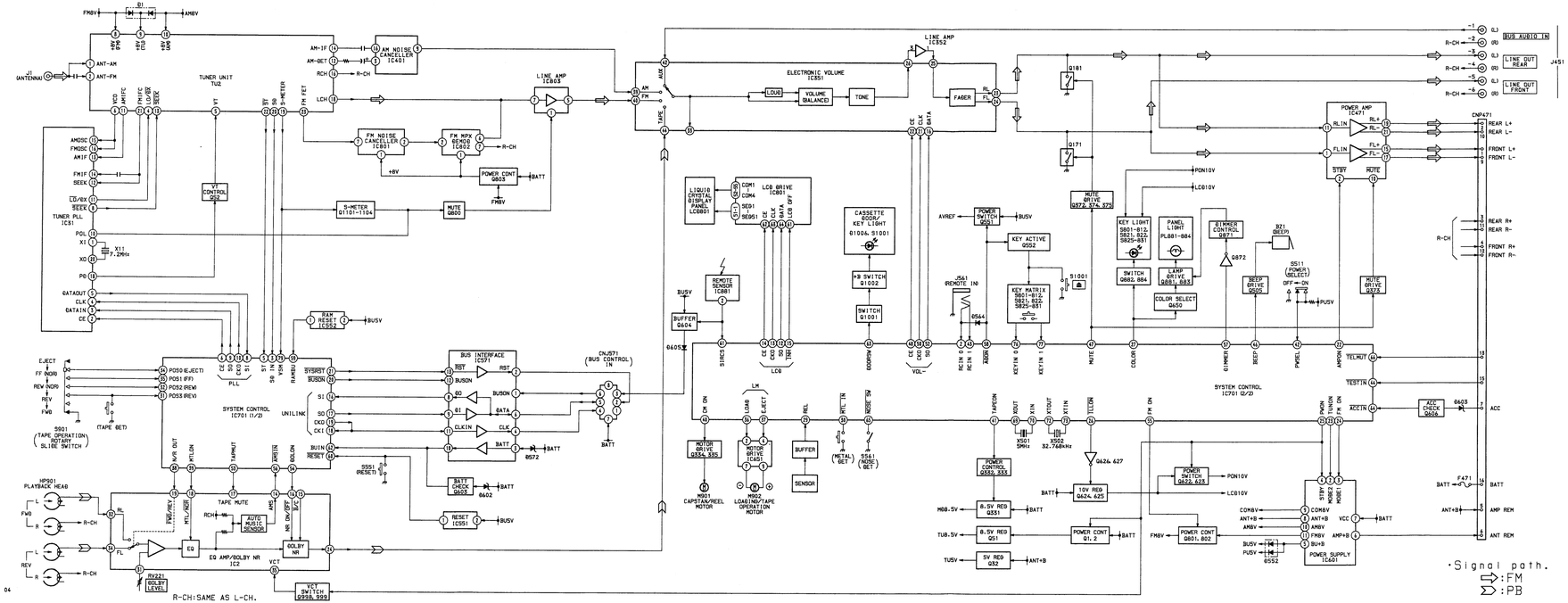
6-1. IC PIN DESCRIPTION

• IC701 μPC73P058GC-228-3B9 (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Pin Description
1	DSEL1	I	Destination the first setting A/D input
2	RCIN0	I	Rotary commander input
3	SD IN	I	Station detector detect input
4	AVSS	—	GND
5	ST	I/O	STEREO input/MONO output (FM mode)
6	PLLCE	O	PLL serial chip enable output
7	AVREF	—	D/A conversion reference power supply voltage
8	PLLSI	I	PLL serial data input
9	PLLSO	O	PLL serial data output
10	PLLCKO	O	PLL serial clock output
11	COLSEL	I	Illumination color select input. Fixed at "H" (GREEN).
12	LCDSO	O	LCD serial data output
13	LCDCKO	O	LCD serial clock output
14	LCDCE	O	LCD chip enable output
15	$\overline{\text{LCDINH}}$	O	LCD blank display control output
16	UNISI	I	Serial data input
17	UNISO	O	Serial data output
18	UNICKI	I	Serial clock input
19	UNICKO	O	Serial clock output
20	$\overline{\text{BUSON}}$	O	BUS ON control output
21	$\overline{\text{SYSRST}}$	O	System reset control output
22	AMPON	O	Power amplifier power control output
23	TUNON	O	Tuner power control output
24	FM ON	O	FM power control output
25	PW ON	O	System power control output
26	ILLON	O	Illumination power control output
27	COLOR	I/O	Illumination color select control input/output
28	$\overline{\text{AMS ON}}$	O	Tape AMS (Auto Music Sensor) control output
29	REL	I	Reel table rotation detect input
30	$\overline{\text{MTLIN}}$	I	Auto METAL detect input
31, 32	POS3, POS2	I	Position signal detect input
33	GND	—	GND
34, 35	POS0, POS1	I	Position signal detect input
36	LM LOD	O	Loading motor control output (Loading direction : forward)
37	LM EJ	O	Loading motor control output (Eject direction : reverse)
38	N/R OUT	O	Forward/Reverse detect output
39	MTLON	O	METAL control output
40	CMON	O	Capstan motor control output
41	TAPEON	O	Tape power control output
42	PW SEL	I	Power select the first setting input
43	RCIN1	I	Rotary commander input
44	$\overline{\text{TEST}}$	I	Test mode setting input
45	$\overline{\text{EQSEL}}$	I	Equalizer connection with/without the first setting input
46	BEEP	O	Buzzer control output
47	MUTE	O	System mute control output
48	VOLCE	O	Electronic volume serial chip enable output
49	SUBCE	O	Sub volume serial chip enable output. Not used in this set.

Pin No.	Pin Name	I/O	Pin Description
50	VOLCKO	O	Electronic volume serial clock output
51	SUBCKO	O	Sub volume serial clock output. Not used in this set.
52	VOLSO	O	Electronic volume serial data output
53	TAPMUT	O	Tape mute control output
54	DOLON	I/O	DOLBY control input/output
55	FM ON	O	FM ON/OFF select control output
56	$\overline{\text{AMSIN}}$	I	At AMS, music with/without detect input
57	DIMMER	I/O	Dimmer control input/output
58	AD ON	O	A/D select power control output
59	RAMBU	I	RAM reset detect input
60	$\overline{\text{RESET}}$	I	Reset input
61	SIRCS	I	Remote commander input
62	BUIN	I	Back-up power detect input
63	DOORSW	I	Front panel open/close detect input
64	ACCIN	I	Accessory power detect input
65	NOSESW	I	Front panel with/without detect input
66	TELMUTE	I	Telephone mute detect input
67	KEYACK	I	Key input acknowledge
68	VDD	—	Microcomputer power voltage supply
69	X OUT	—	Main ceramic oscillator output (5MHz)
70	X IN	—	Main ceramic oscillator input (5MHz)
71	GND	—	GND
72	XT OUT	—	Sub crystal oscillator output (32.768kHz)
73	XT IN	—	Sub crystal oscillator input (32.768kHz)
74	AVDD	—	A/D conversion power supply voltage
75	AVREF	—	A/D conversion reference power supply voltage
76, 77	KEYIN0, KEYIN1	I	Key input
78	KEYSEL	I	Key function select the first setting input. Fixed at "L".
79	VSM	I	Signal meter AD input port terminal of FM.
80	DSEL0	I	Destination the first setting A/D input

6-2. BLOCK DIAGRAM



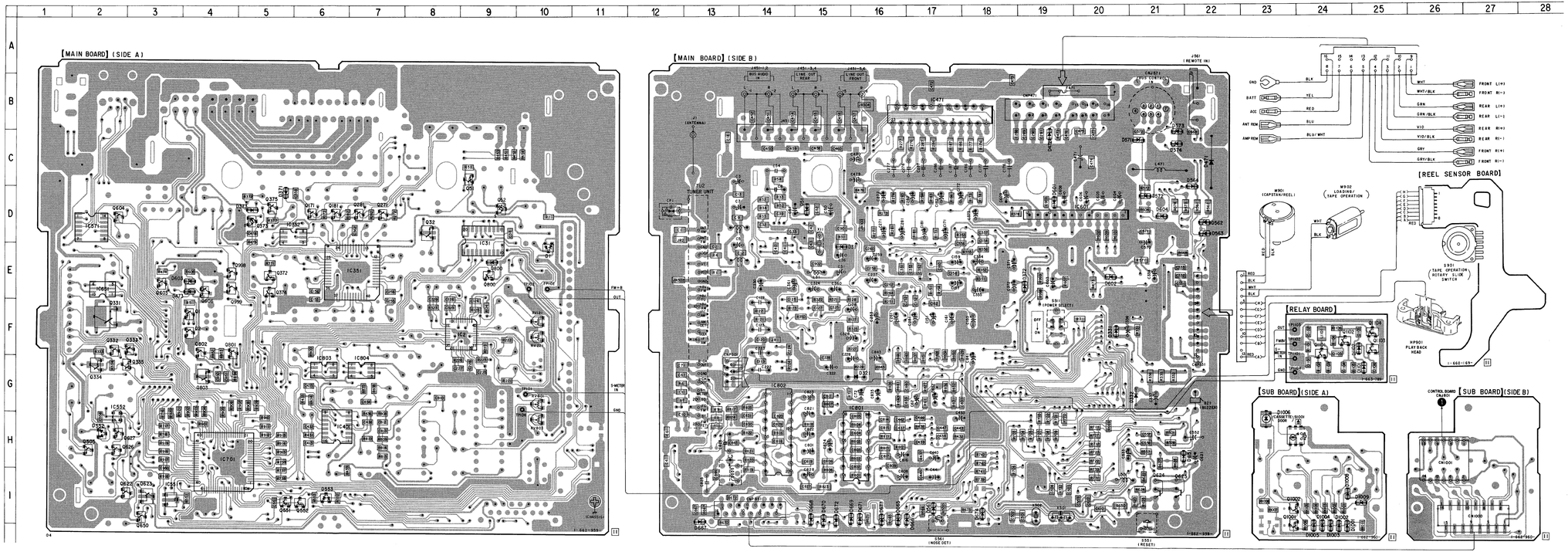
04

6-3. PRINTED WIRING BOARDS—MAIN SECTION—

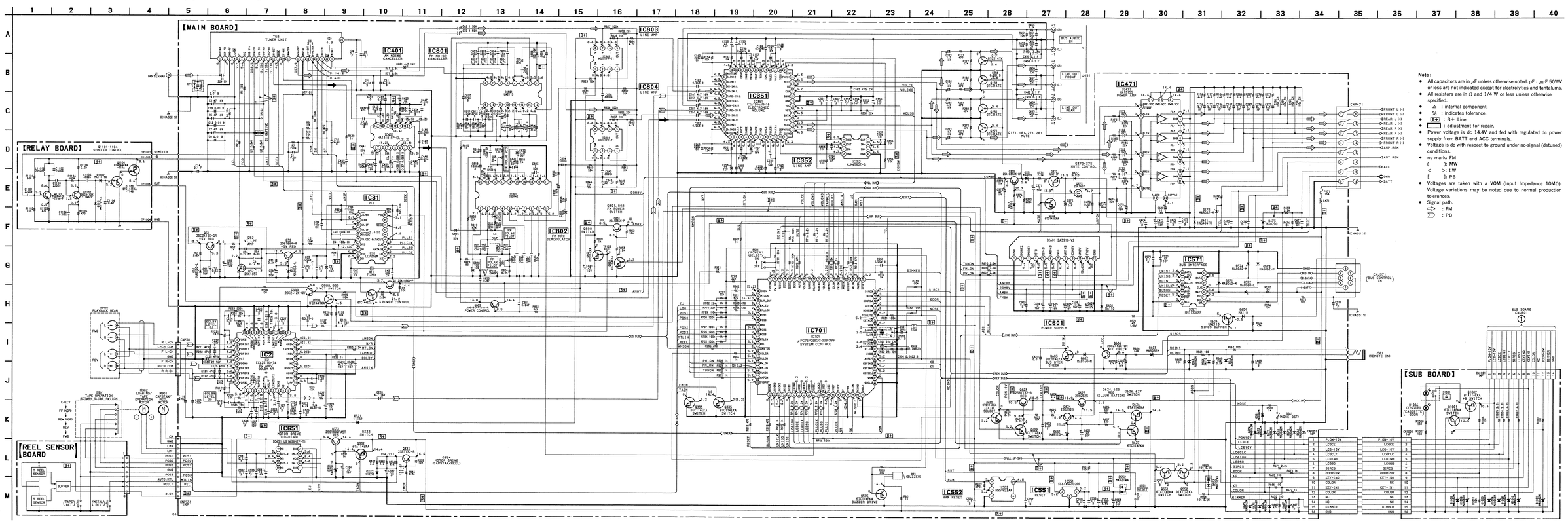
● **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D1	E-10	IC551	I-3
D31	E-15	IC552	H-2
D51	D-15	IC571	D-2
D321	G-16	IC601	D-19
D331	F-20	IC651	F-2
D332	G-21	IC701	I-4
D371	D-5	IC801	H-16
D372	E-19	IC802	H-14
D373	D-5	IC803	G-6
D471	C-22	IC804	G-7
D472	C-19		
D473	F-4	Q1	F-4
D552	H-2	Q2	F-4
D553	I-6	Q32	E-8
D561	I-17	Q51	D-9
D562	D-22	Q52	D-9
D563	D-22	Q171	D-6
D564	D-22	Q181	D-6
D571	C-21	Q271	D-7
D572	D-21	Q281	D-7
D573	C-21	Q331	F-2
D574	C-21	Q332	G-2
D601	D-19	Q333	G-3
D602	E-20	Q334	G-2
D603	E-4	Q335	G-3
D604	D-21	Q372	E-5
D651	H-21	Q373	D-5
D665	J-16	Q374	F-5
D666	J-16	Q375	D-5
D667	J-13	Q505	H-2
D668	J-15	Q551	I-5
D669	J-16	Q552	I-6
D670	J-15	Q603	E-3
D671	J-16	Q604	A-1
D672	J-15	Q606	F-4
D673	J-16	Q622	I-3
D674	I-18	Q623	I-3
D800	E-9	Q624	I-21
D1001	J-24	Q625	I-21
D1002	J-24	Q626	H-2
D1003	J-24	Q627	H-2
D1004	J-24	Q650	J-3
D1005	J-24	Q800	E-9
D1006	H-23	Q801	G-4
D1008	I-25	Q802	G-4
D1009	I-25	Q803	G-4
D1101	G-25	Q998	E-4
D1102	G-25	Q999	F-4
		Q1001	J-24
IC2	F-2	Q1002	I-24
IC31	E-9	Q1101	G-24
IC351	E-7	Q1102	F-24
IC352	E-5	Q1103	H-25
IC401	H-6	Q1104	H-25
IC471	B-17		

Note :
- ○— : parts extracted from the component side.
- ● : Through hole.
- ▬ : Pattern on the side which is seen. (The other layer's patterns are not indicated.)



6-4. SCHEMATIC DIAGRAM—MAIN SECTION— • Refer to page 47 for IC Block Diagrams.

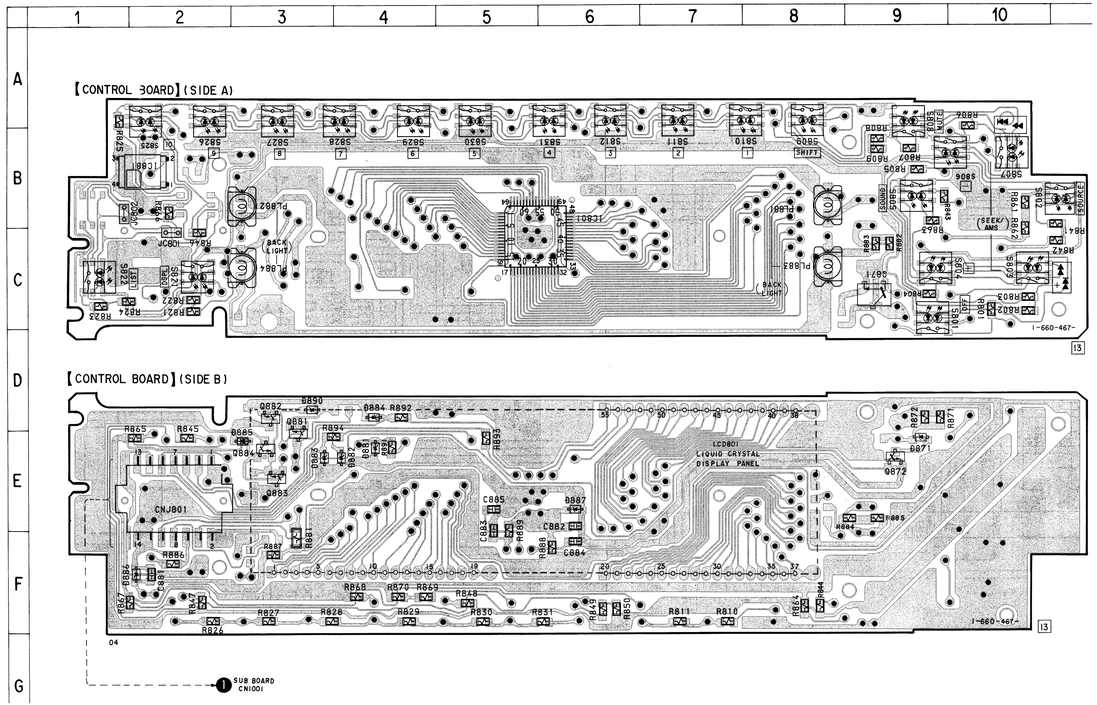

【MAIN BOARD】
【RELAY BOARD】
【REEL SENSOR】 【BOARD
【SUB BOARD】
IC401
IC801
IC803
IC804
IC351
IC352
IC471
IC31
IC802
IC701
IC601
IC571
IC651
IC551
IC552
IC2
Note :
• All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
• All resistors are in Ω and 1/4 W or less unless otherwise specified.
• △ : internal component.
• % : indicates tolerance.
• B+ : B+ Line
• ▭ : adjustment for repair.
• Power voltage is dc 14.4V and fed with regulated dc power supply from BATT and ACC terminals.
• Voltage is dc with respect to ground under no-signal (detuned) conditions.
• no mark: FM
( ): MW
< >: LW
[ ]: PB
• Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
• Signal path.
▭▷ : FM
▷ : PB

6-5. PRINTED WIRING BOARD—PANEL SECTION—

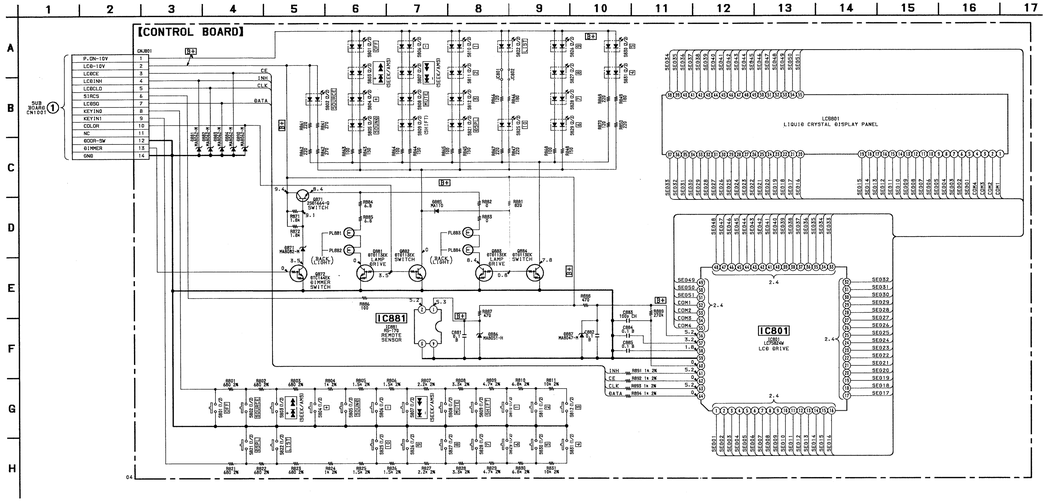
● Semiconductor Location

Ref. No.	Location
D871	E-9
D881	E-4
D882	E-4
D883	E-3
D884	D-4
D885	E-3
D886	F-2
D887	E-6
D890	D-3
IC801	C-6
IC881	B-2
Q871	C-9
Q872	E-9
Q881	D-3
Q882	D-3
Q883	E-3
Q884	E-3

Note :
- ● : Through hole.
- ▬ : Pattern on the side which is seen. (The other layer's patterns are not indicated.)



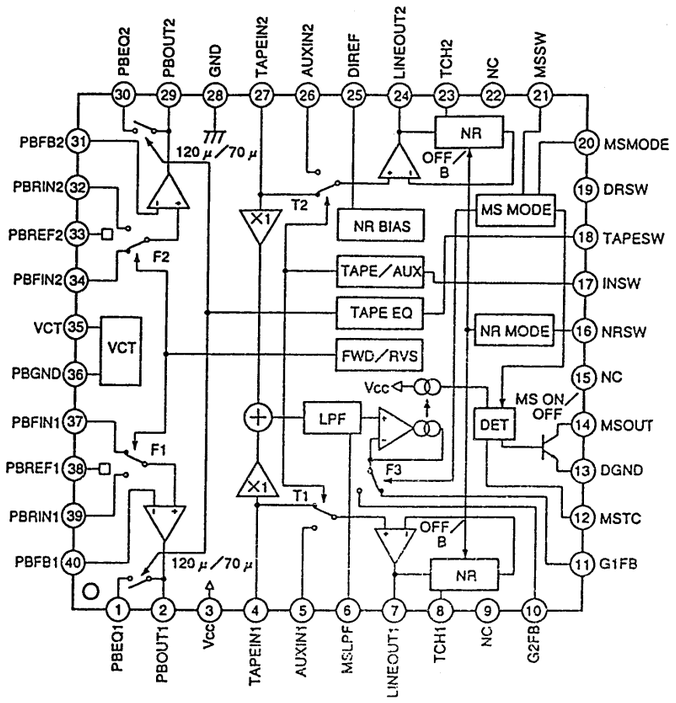
6-6. SCHEMATIC DIAGRAM—PANEL SECTION—



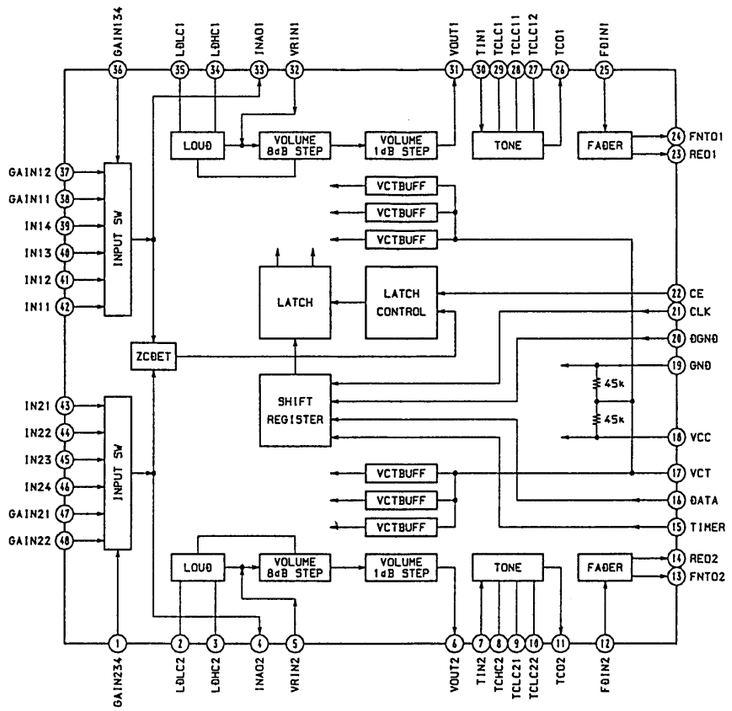
Note :
- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- B+ : B+ Line
- Power voltage is dc 14.4V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.

• **IC Block Diagrams**

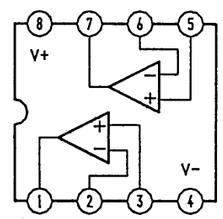
IC2 CXA2510Q-T4



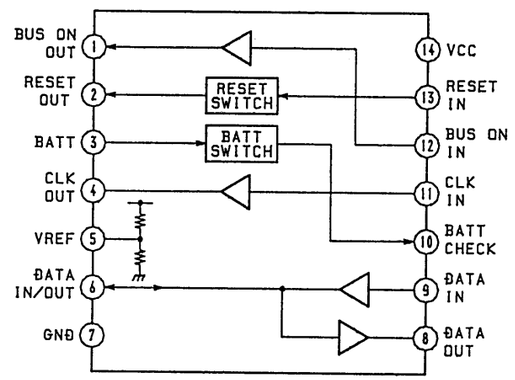
IC351 CXA1946AQ-T6



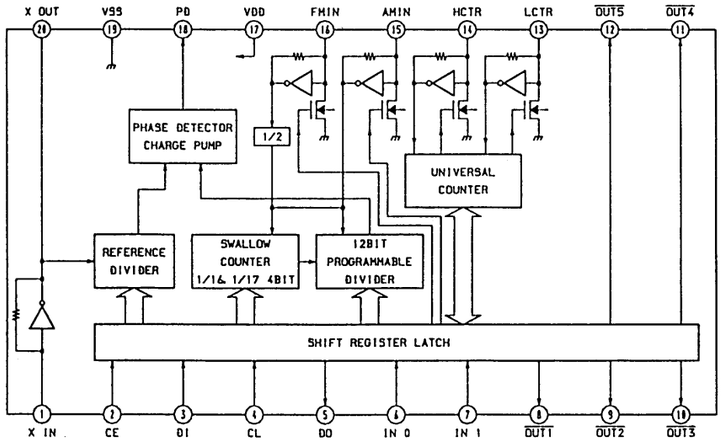
IC352 NJM4580E-D



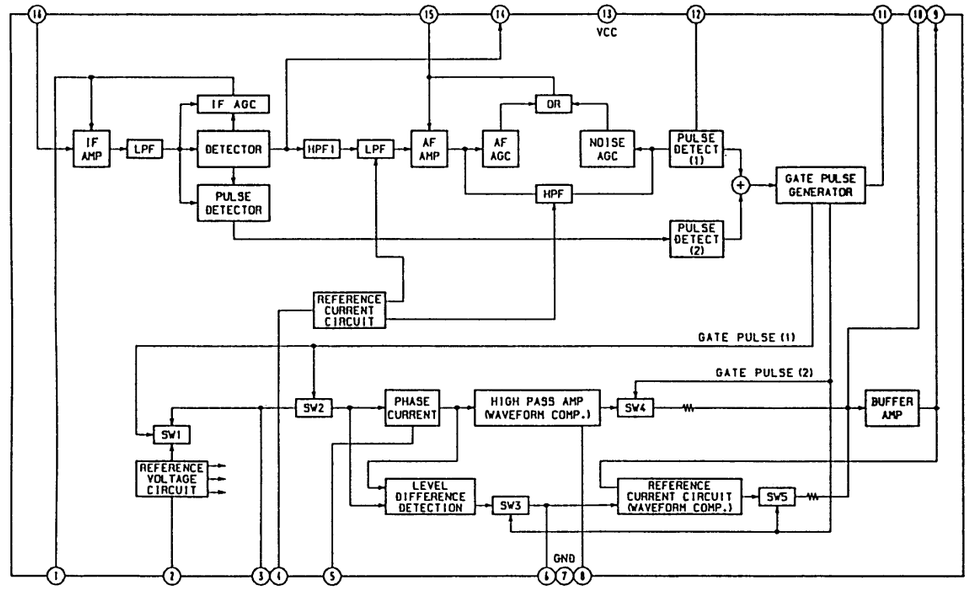
IC571 MM1175XFF



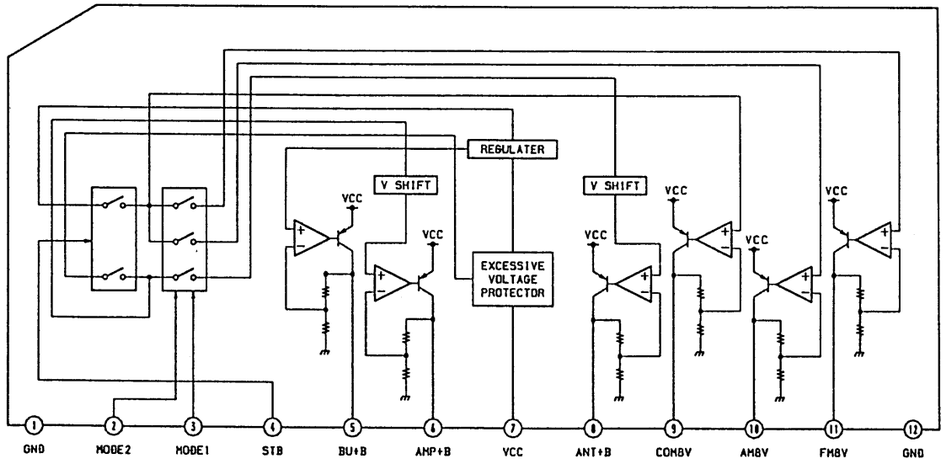
IC31 LC7216M



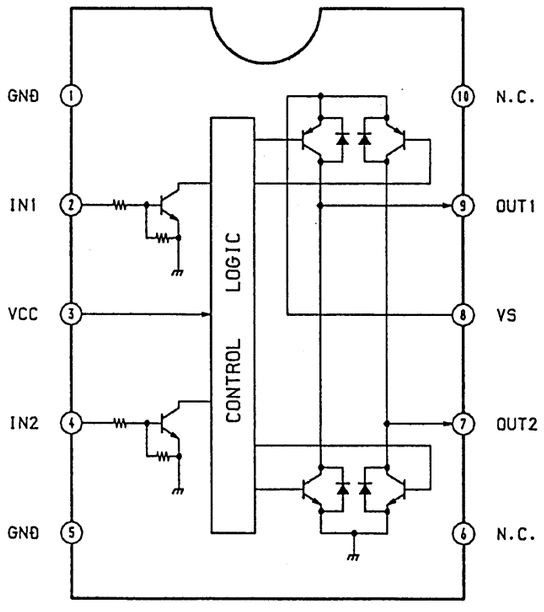
IC401 HA12181FP-EL



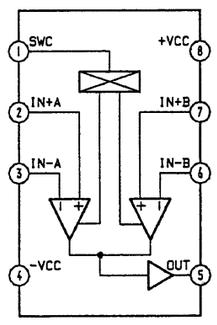
IC601 BA3918-V2



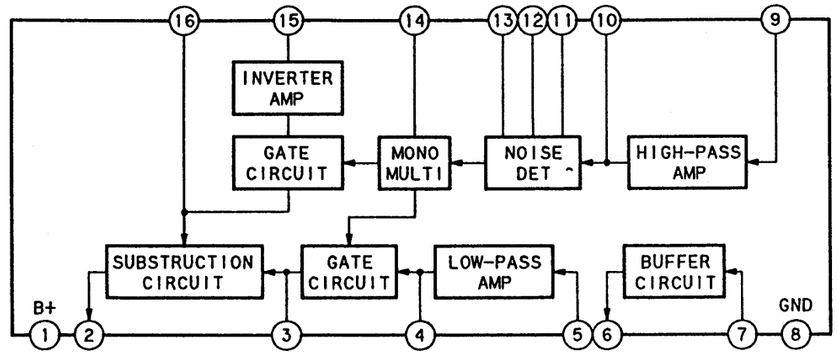
IC651 LB1638MTP-T1



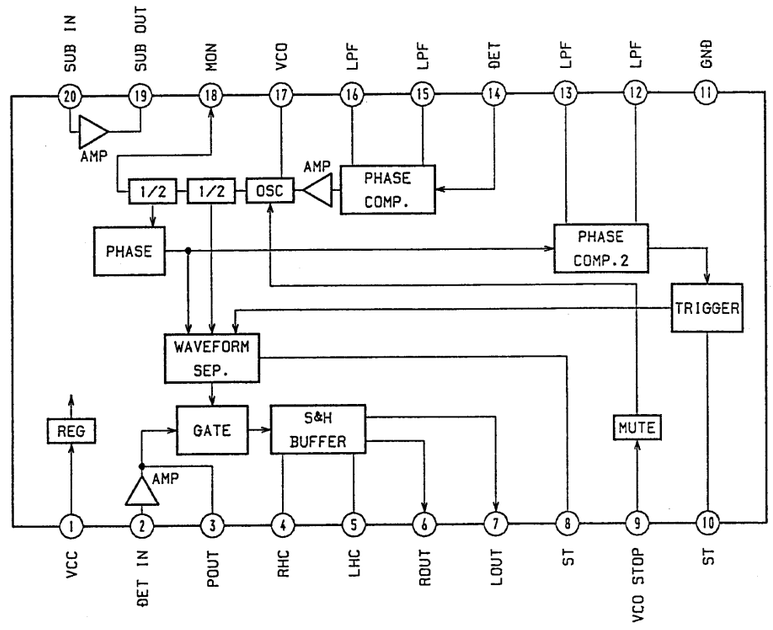
IC803, 804 M5201FP-T1



IC801 LA2113



IC802 IR3R42

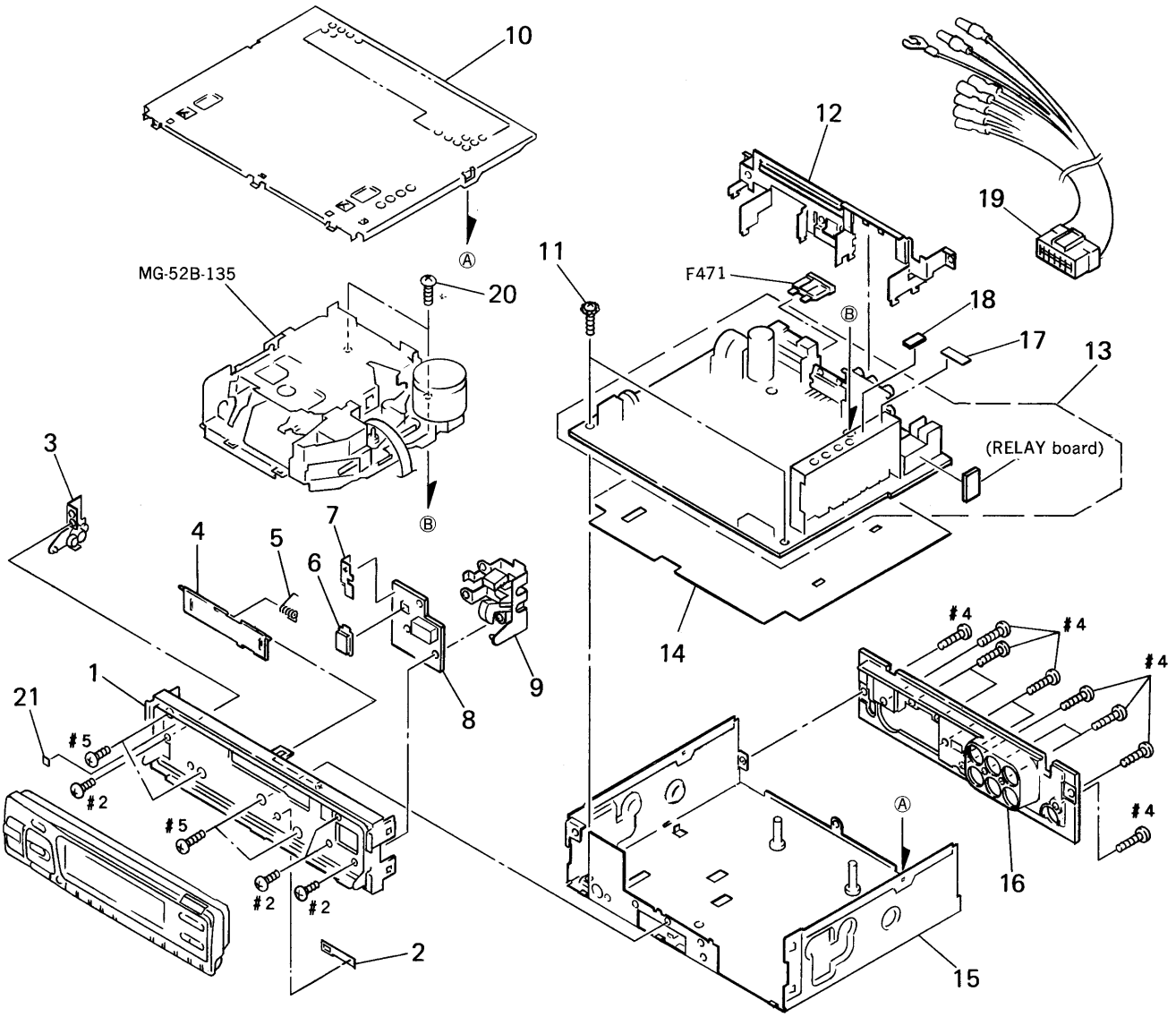


SECTION 7
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

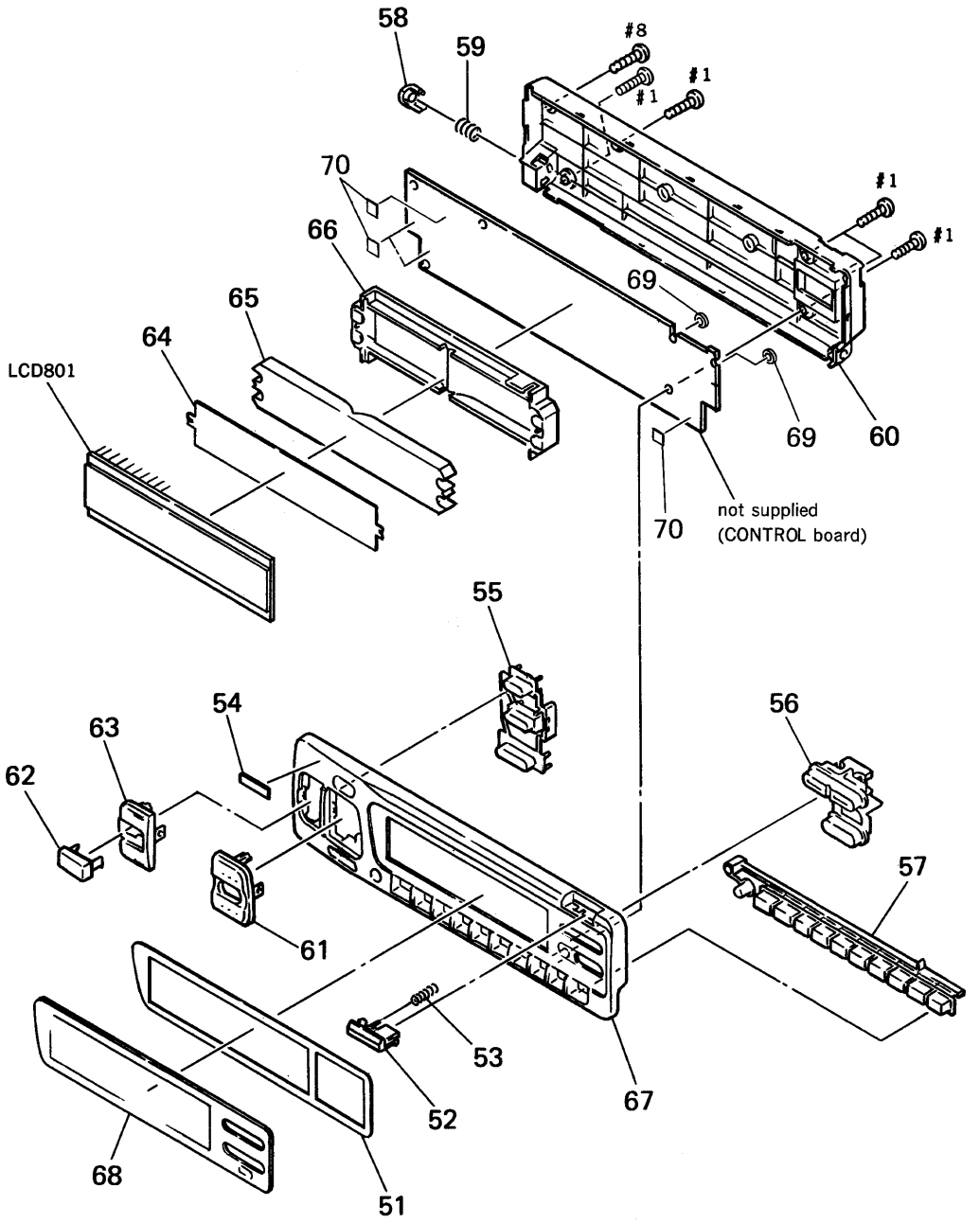
7-1. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
1	3-932-208-11	PANEL, SUB	
2	X-3371-545-1	SPRING (SW) ASSY	
3	A-3291-624-A	SHAFT ASSY	
4	3-932-205-01	DOOR, CASSETTE	
5	3-913-076-01	SPRING (C DOOR), TORSION	
6	3-932-223-01	BUTTON (EJECT)	
7	3-932-224-11	PLATE (C DOOR), LIGHT GUIDE	
* 8	1-662-960-11	SUB BOARD	
9	X-3372-055-1	LOCK (SHAFT) ASSY	
* 10	X-3371-546-1	COVER ASSY	
11	3-915-923-01	SCREW, GROUND POINT	

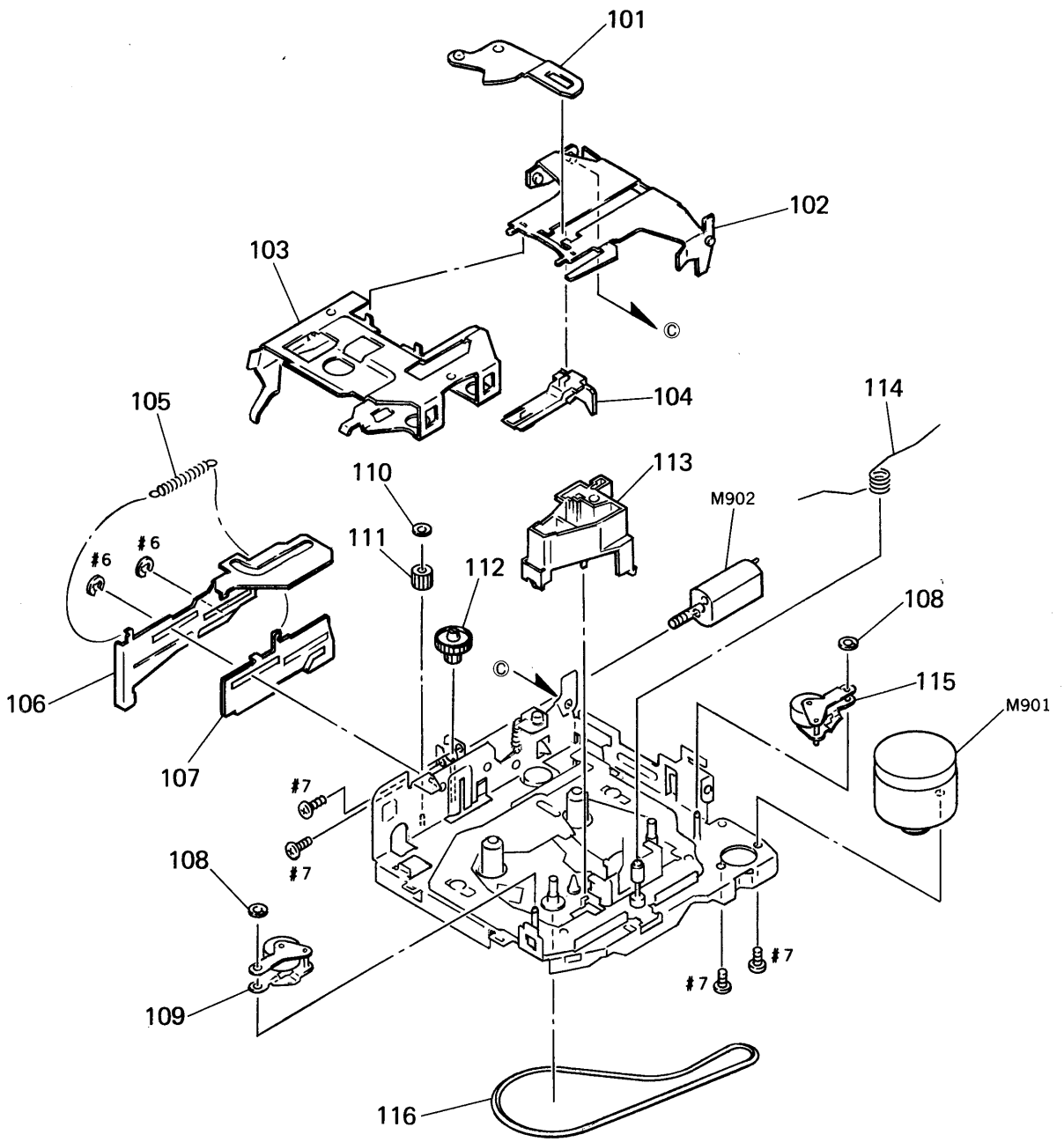
Ref. No.	Part No.	Description	Remark
* 12	3-932-212-11	BRACKET (IC)	
* 13	A-3294-156-A	MAIN BOARD, COMPLETE	
* 14	3-939-286-01	INSULATOR	
* 15	X-3371-542-1	CHASSIS ASSY	
* 16	3-932-210-01	HEAT SINK	
17	3-935-048-01	SHEET (CU)	
18	9-911-840-XX	CUSHION (U)	
19	1-776-207-11	CORD (WITH CONNECTOR) (POWER)	
20	3-919-171-01	SCREW (2.6X6) (C TIGHT)	
* 21	3-937-571-01	SPACER (SUB P)	
F471	1-532-982-11	FUSE (BLADE TYPE) (AUTO FUSE) 15A	

7-2. FRONT PANEL SECTION



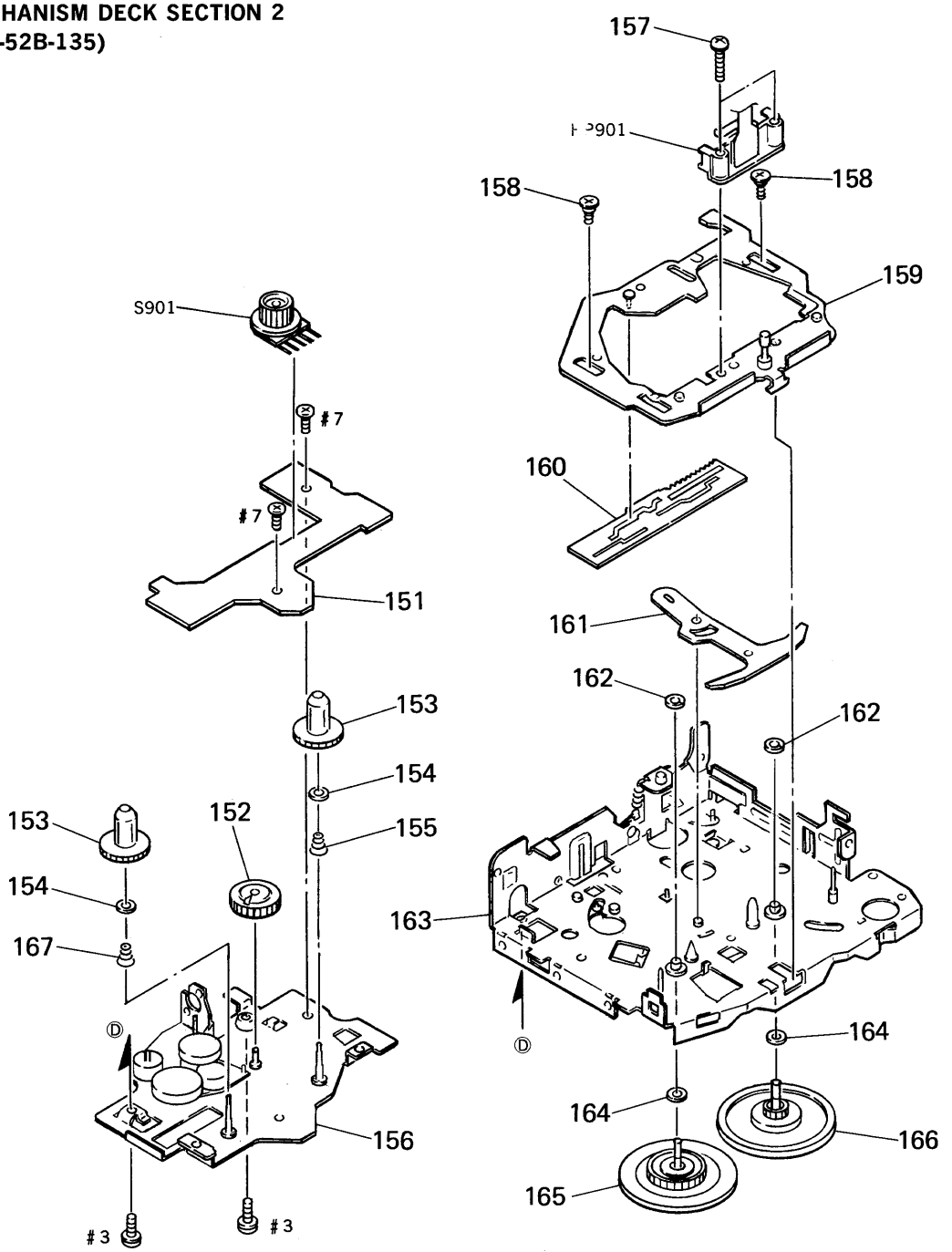
Ref. No.	Part No.	Description	Remark
51	3-934-279-01	SHEET (LCD), ADHESIVE	
52	3-932-219-01	BUTTON (OPEN)	
53	3-932-225-01	SPRING (OPEN)	
54	3-904-194-01	EMBLEM (NO. 2.5), SONY	
55	3-932-216-01	BUTTON (O.S.M)	
56	3-932-218-11	BUTTON (D/L.T/A)	
57	3-932-217-01	BUTTON (1-10)	
58	3-932-239-01	BEARING (RELEASE)	
59	3-932-240-01	SPRING (RELEASE)	
60	3-932-207-01	PANEL, FRONT BACK	
61	3-932-215-01	BUTTON (+.-)	
62	3-932-214-01	BUTTON (SOURCE)	
63	3-932-213-01	BUTTON (S/A)	
* 64	3-932-221-01	SHEET (REFLECTOR)	
* 65	3-932-220-01	PLATE (LCD), LIGHT GUIDE	
* 66	3-932-222-01	HOLDER (LCD)	
67	3-932-241-81	PANEL, FRONT	
68	3-932-242-41	PLATE (LCD), INDICATION	
* 69	3-917-074-32	SPACER (RING)	
70	3-327-119-01	SPACER (A)	
LCD801	1-801-193-11	DISPLAY PANEL, LIQUID CRYSTAL	

7-3. MECHANISM DECK SECTION 1 (MG-52B-135)



Ref. No.	Part No.	Description	Remark
* 101	3-933-347-01	ARM (SUCTION)	
102	3-933-340-01	HANGER	
103	3-928-671-01	HOUSING	
104	3-933-346-01	CATCHER	
105	3-933-341-01	SPRING (LEVER LDG), TENSION	
106	3-928-674-01	LEVER (LDG-B)	
* 107	3-928-673-01	LEVER (LDG-A)	
108	3-321-813-01	WASHER, COTTER POLYETHYLENE	
109	X-3370-977-1	LEVER (PINCH R) ASSY	
110	3-341-753-11	WASHER, POLYETHYLENE	
111	3-933-335-01	GEAR (LDG-FT)	
112	3-928-667-01	GEAR (LDG-A)	
113	3-933-344-01	GUIDE (C)	
114	3-928-670-01	SPRING (PINCH PRESS)	
115	X-3370-976-1	LEVER (PINCH F) ASSY	
116	3-928-675-01	BELT (52)	
M901	A-3291-644-A	MOTOR ASSY, MAIN	
M902	A-3291-643-A	MOTOR ASSY, SUB	

7-4. MECHANISM DECK SECTION 2 (MG-52B-135)



Ref. No.	Part No.	Description	Remark
151	1-660-169-11	REEL SENSOR BOARD	
152	3-933-333-01	GEAR (LDG-E)	
153	3-933-345-01	GEAR, REEL	
154	3-701-437-01	POLY-SLIDER (A)	
155	3-933-339-01	SPRING (B-T-F), CONE COIL	
156	X-3371-710-1	CHASSIS (S) ASSY	
157	3-927-100-01	SCREW (+PS 2X10), SPECIAL	
158	3-933-338-01	SCREW (HP), STEP	
* 159	X-3371-712-1	PLATE SUB ASSY, HEAD	
160	3-928-668-01	LEVER (MODE)	
161	3-928-669-01	LEVER (PINCH SELECTION)	
162	3-364-151-01	WASHER	
* 163	X-3371-705-1	CHASSIS (M) ASSY (B)	
164	3-701-437-21	WASHER	
165	A-3291-646-A	CLUTCH (FR) ASSY	
166	3-930-932-01	FLYWHEEL (F) (SEF)	
167	3-933-337-01	SPRING (B-T-R), CONE COIL	
HP901	1-500-157-21	HEAD, MAGNETIC (PLAYBACK)	
S901	1-692-885-11	SWITCH, ROTARY SLIDE (TAPE OPERATION)	

SECTION 8
ELECTRICAL PARTS LIST

CONTROL

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description			Remark
		CONTROL BOARD			
		**********			
*	3-932-220-01	PLATE (LCD), LIGHT GUIDE			
*	3-932-221-01	SHEET (REFLECTOR)			
*	3-932-222-01	HOLDER (LCD)			
		< CAPACITOR >			
C881	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V	
C882	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V	
C883	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
C884	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V	
C885	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V	
		< CONNECTOR >			
CNJ801	1-774-945-11	PLUG, CONNECTOR 14P			
		< DIODE >			
D871	8-719-420-14	DIODE	MA8082-M		
D881	8-719-422-64	DIODE	MA8062-M		
D882	8-719-422-64	DIODE	MA8062-M		
D883	8-719-422-64	DIODE	MA8062-M		
D884	8-719-422-64	DIODE	MA8062-M		
D885	8-719-404-46	DIODE	MA110		
D886	8-719-422-43	DIODE	MA8051-H		
D887	8-719-422-31	DIODE	MA8047-M		
D890	8-719-422-64	DIODE	MA8062-M		
		< IC >			
IC801	8-759-365-90	IC	LC75824W		
IC881	8-749-012-25	IC	RS-170-TU		
		< JUMPER RESISTOR >			
JC801	1-216-295-00	CONDUCTOR, CHIP		(2012)	
JC802	1-216-295-00	CONDUCTOR, CHIP		(2012)	
		< LIQUID CRYSTAL DISPLAY >			
LCD801	1-801-193-11	DISPLAY PANEL, LIQUID CRYSTAL			

Ref.No.	Part No.	Description			Remark
		< PILOT LAMP >			
PL881	1-517-533-11	LAMP, PILOT			
PL882	1-517-533-11	LAMP, PILOT			
PL883	1-517-533-21	LAMP, PILOT			
PL884	1-517-533-21	LAMP, PILOT			
		< TRANSISTOR >			
Q871	8-729-106-68	TRANSISTOR	2SD1615A-GP		
Q872	8-729-027-59	TRANSISTOR	DTC144EKA-T146		
Q881	8-729-904-66	TRANSISTOR	DTD113EK		
Q882	8-729-904-66	TRANSISTOR	DTD113EK		
Q883	8-729-904-66	TRANSISTOR	DTD113EK		
Q884	8-729-904-66	TRANSISTOR	DTD113EK		
		< RESISTOR >			
R801	1-216-647-11	METAL CHIP	680	0.5% 1/10W	
R802	1-216-647-11	METAL CHIP	680	0.5% 1/10W	
R803	1-216-647-11	METAL CHIP	680	0.5% 1/10W	
R804	1-208-437-41	METAL GLAZE	1K	2% 1/10W	
R805	1-216-655-11	METAL CHIP	1.5K	0.5% 1/10W	
R806	1-216-655-11	METAL CHIP	1.5K	0.5% 1/10W	
R807	1-208-445-41	METAL GLAZE	2.2K	2% 1/10W	
R808	1-208-449-41	METAL GLAZE	3.3K	2% 1/10W	
R809	1-208-453-41	METAL GLAZE	4.7K	2% 1/10W	
R810	1-216-671-11	METAL CHIP	6.8K	0.5% 1/10W	
R811	1-208-462-41	METAL GLAZE	10K	2% 1/10W	
R821	1-216-647-11	METAL CHIP	680	0.5% 1/10W	
R822	1-216-647-11	METAL CHIP	680	0.5% 1/10W	
R823	1-216-647-11	METAL CHIP	680	0.5% 1/10W	
R824	1-208-437-41	METAL GLAZE	1K	2% 1/10W	
R825	1-216-655-11	METAL CHIP	1.5K	0.5% 1/10W	
R826	1-216-655-11	METAL CHIP	1.5K	0.5% 1/10W	
R827	1-208-445-41	METAL GLAZE	2.2K	2% 1/10W	
R828	1-208-449-41	METAL GLAZE	3.3K	2% 1/10W	
R829	1-208-453-41	METAL GLAZE	4.7K	2% 1/10W	
R830	1-216-671-11	METAL CHIP	6.8K	0.5% 1/10W	
R831	1-208-462-41	METAL GLAZE	10K	2% 1/10W	
R841	1-216-035-00	METAL CHIP	270	5% 1/10W	
R842	1-216-035-00	METAL CHIP	270	5% 1/10W	

CONTROL **MAIN**

Ref. No.	Part No.	Description			Remark
R843	1-216-029-00	METAL CHIP	150	5%	1/10W
R844	1-216-029-00	METAL CHIP	150	5%	1/10W
R845	1-216-029-00	METAL CHIP	150	5%	1/10W
R846	1-216-031-00	METAL CHIP	180	5%	1/10W
R847	1-216-033-00	METAL CHIP	220	5%	1/10W
R848	1-216-029-00	METAL CHIP	150	5%	1/10W
R849	1-216-031-00	METAL CHIP	180	5%	1/10W
R850	1-216-033-00	METAL CHIP	220	5%	1/10W
R861	1-216-033-00	METAL CHIP	220	5%	1/10W
R862	1-216-033-00	METAL CHIP	220	5%	1/10W
R863	1-216-025-00	METAL GLAZE	100	5%	1/10W
R864	1-216-025-00	METAL GLAZE	100	5%	1/10W
R865	1-216-025-00	METAL GLAZE	100	5%	1/10W
R866	1-216-027-00	METAL CHIP	120	5%	1/10W
R867	1-216-033-00	METAL CHIP	220	5%	1/10W
R868	1-216-025-00	METAL GLAZE	100	5%	1/10W
R869	1-216-033-00	METAL CHIP	220	5%	1/10W
R870	1-216-027-00	METAL CHIP	120	5%	1/10W
R871	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R872	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R881	1-216-196-00	METAL GLAZE	820	5%	1/8W
R882	1-216-295-00	CONDUCTOR, CHIP		(2012)	
R883	1-216-295-00	CONDUCTOR, CHIP		(2012)	
R884	1-216-311-00	METAL CHIP	6.8	5%	1/10W
R885	1-216-311-00	METAL CHIP	6.8	5%	1/10W
R886	1-216-025-00	METAL GLAZE	100	5%	1/10W
R887	1-216-041-00	METAL CHIP	470	5%	1/10W
R888	1-216-041-00	METAL CHIP	470	5%	1/10W
R889	1-216-107-00	METAL CHIP	270K	5%	1/10W
R891	1-208-437-41	METAL GLAZE	1K	2%	1/10W
R892	1-208-437-41	METAL GLAZE	1K	2%	1/10W
R893	1-208-437-41	METAL GLAZE	1K	2%	1/10W
R894	1-208-437-41	METAL GLAZE	1K	2%	1/10W
		< SWITCH >			
S801	1-762-620-11	SWITCH, KEY BOARD (WITH LED)			(OFF)
S802	1-762-620-11	SWITCH, KEY BOARD (WITH LED)			(SOURCE)
S803	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (+ ▶▶I/▶▶ (SEEK/AMS))			
S804	1-762-620-11	SWITCH, KEY BOARD (WITH LED)			(+)
S805	1-762-620-11	SWITCH, KEY BOARD (WITH LED)			(SOUND)
S806	1-762-620-11	SWITCH, KEY BOARD (WITH LED)			(-)
S807	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (- I◀◀/◀◀ (SEEK/AMS))			
S808	1-762-620-11	SWITCH, KEY BOARD (WITH LED)			(MUTE)
S809	1-762-620-11	SWITCH, KEY BOARD (WITH LED)			(SHIFT)
S810	1-762-620-11	SWITCH, KEY BOARD (WITH LED)			(1)
S811	1-762-620-11	SWITCH, KEY BOARD (WITH LED)			(2)
S812	1-762-620-11	SWITCH, KEY BOARD (WITH LED)			(3)
S821	1-762-620-11	SWITCH, KEY BOARD (WITH LED)			(DSPL)
S822	1-762-620-11	SWITCH, KEY BOARD (WITH LED)			(LIST)
S825	1-762-620-11	SWITCH, KEY BOARD (WITH LED)			(10)
S826	1-762-620-11	SWITCH, KEY BOARD (WITH LED)			(9)
S827	1-762-620-11	SWITCH, KEY BOARD (WITH LED)			(8)
S828	1-762-620-11	SWITCH, KEY BOARD (WITH LED)			(7)
S829	1-762-620-11	SWITCH, KEY BOARD (WITH LED)			(6)
S830	1-762-620-11	SWITCH, KEY BOARD (WITH LED)			(5)
S831	1-762-620-11	SWITCH, KEY BOARD (WITH LED)			(4)
**********					
*	A-3294-156-A	MAIN BOARD, COMPLETE (INCLUDING RELAY BOARD)			
		**********			
*	3-932-212-11	BRACKET (IC)			
*	4-918-544-11	SPACER (T)			
		< BUZZER >			
BZ1	1-504-920-11	BUZZER			
		< CAPACITOR >			
C1	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C2	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C3	1-124-589-11	ELECT	47uF	20%	16V
C4	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C5	1-124-589-11	ELECT	47uF	20%	16V
C6	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C7	1-124-589-11	ELECT	47uF	20%	16V
C8	1-136-166-00	FILM	0.12uF	5%	50V
C9	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C10	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C11	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C12	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C13	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C14	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C31	1-126-157-11	ELECT	10uF	20%	16V
C32	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C33	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C36	1-126-301-11	ELECT	1uF	20%	50V
C38	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C39	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C40	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C41	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C42	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C43	1-163-104-00	CERAMIC CHIP	30PF	5%	50V
C50	1-128-241-11	ELECT	220uF	20%	10V
C51	1-128-134-11	ELECT	100uF	20%	16V
C52	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C54	1-136-169-00	FILM	0.22uF	5%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C61	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V
C62	1-126-301-11	ELECT	1uF	20%	50V
C71	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V
C72	1-126-301-11	ELECT	1uF	20%	50V
C119	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C120	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C122	1-130-469-00	MYLAR	680PF	5%	50V
C123	1-130-469-00	MYLAR	680PF	5%	50V
C124	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C125	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C126	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C127	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C128	1-126-288-11	ELECT	4.7uF	20%	16V
C151	1-126-288-11	ELECT	4.7uF	20%	16V
C152	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C153	1-124-234-00	ELECT	22uF	20%	16V
C155	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C156	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C157	1-126-157-11	ELECT	10uF	20%	16V
C158	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C159	1-126-157-11	ELECT	10uF	20%	16V
C160	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C161	1-126-288-11	ELECT	4.7uF	20%	16V
C162	1-163-259-51	CERAMIC CHIP	220PF	5%	50V
C162	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C171	1-126-288-11	ELECT	4.7uF	20%	16V
C172	1-126-301-11	ELECT	1uF	20%	50V
C176	1-136-165-00	FILM	0.1uF	5%	50V
C177	1-136-165-00	FILM	0.1uF	5%	50V
C181	1-126-288-11	ELECT	4.7uF	20%	16V
C182	1-126-301-11	ELECT	1uF	20%	50V
C186	1-136-165-00	FILM	0.1uF	5%	50V
C187	1-136-165-00	FILM	0.1uF	5%	50V
C222	1-130-469-00	MYLAR	680PF	5%	50V
C223	1-130-469-00	MYLAR	680PF	5%	50V
C224	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C225	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C226	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C227	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C228	1-126-288-11	ELECT	4.7uF	20%	16V
C251	1-126-288-11	ELECT	4.7uF	20%	16V
C252	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C253	1-124-234-00	ELECT	22uF	20%	16V
C255	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C256	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C257	1-126-157-11	ELECT	10uF	20%	16V
C258	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C259	1-126-157-11	ELECT	10uF	20%	16V
C260	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V

Ref. No.	Part No.	Description			Remark
C261	1-126-288-11	ELECT	4.7uF	20%	16V
C262	1-163-259-51	CERAMIC CHIP	220PF	5%	50V
C262	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C271	1-126-288-11	ELECT	4.7uF	20%	16V
C272	1-126-301-11	ELECT	1uF	20%	50V
C276	1-136-165-00	FILM	0.1uF	5%	50V
C277	1-136-165-00	FILM	0.1uF	5%	50V
C281	1-126-288-11	ELECT	4.7uF	20%	16V
C282	1-126-301-11	ELECT	1uF	20%	50V
C286	1-136-165-00	FILM	0.1uF	5%	50V
C287	1-136-165-00	FILM	0.1uF	5%	50V
C288	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C289	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C290	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C291	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C322	1-124-584-00	ELECT	100uF	20%	10V
C323	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C324	1-126-159-11	ELECT	0.47uF	20%	50V
C325	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C328	1-126-157-11	ELECT	10uF	20%	16V
C329	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C330	1-124-234-00	ELECT	22uF	20%	16V
C331	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C332	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C333	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C334	1-126-157-11	ELECT	10uF	20%	16V
C336	1-124-234-00	ELECT	22uF	20%	16V
C337	1-126-934-11	ELECT	220uF	20%	16V
C338	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C351	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C352	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C353	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C354	1-124-234-00	ELECT	22uF	20%	16V
C355	1-124-584-00	ELECT	100uF	20%	10V
C356	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C357	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C358	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C360	1-126-157-11	ELECT	10uF	20%	16V
C361	1-126-288-11	ELECT	4.7uF	20%	16V
C362	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C371	1-126-301-11	ELECT	1uF	20%	50V
C372	1-126-157-11	ELECT	10uF	20%	16V
C373	1-124-589-11	ELECT	47uF	20%	16V
C413	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C432	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C433	1-126-157-11	ELECT	10uF	20%	16V
C434	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C435	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C437	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V

MAIN

Ref. No.	Part No.	Description			Remark
C438	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C439	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C440	1-126-288-11	ELECT	4.7uF	20%	16V
C441	1-126-301-11	ELECT	1uF	20%	50V
C442	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C443	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C445	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C446	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C447	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C450	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C451	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C452	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C454	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C455	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C456	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C457	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C458	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C459	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C460	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C471	1-111-233-11	ELECT	5600uF	20%	16V
C472	1-164-299-11	CERAMIC CHIP	0.22uF	10%	25V
C473	1-164-299-11	CERAMIC CHIP	0.22uF	10%	25V
C474	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C475	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C476	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C477	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C478	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C479	1-124-589-11	ELECT	47uF	20%	16V
C480	1-126-157-11	ELECT	10uF	20%	16V
C501	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C502	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C503	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C504	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C551	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C552	1-125-705-11	DOUBLE LAYERS	0.22F		5.5V
C553	1-126-925-11	ELECT	470uF	20%	10V
C556	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C557	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C558	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C559	1-164-005-11	CERAMIC CHIP	0.47uF	10%	25V
C570	1-124-589-11	ELECT	47uF	20%	16V
C571	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C572	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C603	1-126-288-11	ELECT	4.7uF	20%	16V
C604	1-126-157-11	ELECT	10uF	20%	16V
C605	1-126-157-11	ELECT	10uF	20%	16V
C606	1-126-157-11	ELECT	10uF	20%	16V
C608	1-126-157-11	ELECT	10uF	20%	16V
C609	1-126-157-11	ELECT	10uF	20%	16V
C610	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C621	1-124-257-00	ELECT	2.2uF	20%	50V
C622	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C667	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C668	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C801	1-126-288-11	ELECT	4.7uF	20%	16V
C802	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C803	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C804	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V
C805	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C806	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C808	1-124-584-00	ELECT	100uF	20%	10V
C809	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C810	1-163-002-11	CERAMIC CHIP	270PF	10%	50V
C811	1-163-002-11	CERAMIC CHIP	270PF	10%	50V
C812	1-163-002-11	CERAMIC CHIP	270PF	10%	50V
C813	1-163-002-11	CERAMIC CHIP	270PF	10%	50V
C814	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C815	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C816	1-124-464-11	ELECT	0.22uF	20%	50V
C817	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C818	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C819	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C820	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C821	1-126-159-11	ELECT	0.47uF	20%	50V
C822	1-126-159-11	ELECT	0.47uF	20%	50V
C823	1-126-301-11	ELECT	1uF	20%	50V
C824	1-126-301-11	ELECT	1uF	20%	50V
C825	1-137-522-11	FILM	0.01uF	5%	50V
C826	1-137-150-11	FILM	0.01uF	5%	100V
C827	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C828	1-124-584-00	ELECT	100uF	20%	10V
C829	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C830	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C831	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C832	1-126-301-11	ELECT	1uF	20%	50V
C833	1-126-301-11	ELECT	1uF	20%	50V
C834	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C836	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C840	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C841	1-124-589-11	ELECT	47uF	20%	16V
C843	1-124-234-00	ELECT	22uF	20%	16V
C844	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C845	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C850	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C851	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C902	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C903	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C950	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
CNJ571	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)	
CNP301	1-766-260-11	CONNECTOR, FFC/FPC (ZIF) 7P	
* CNP331	1-506-995-11	PIN, CONNECTOR (PC BOARD) 13P	
CNP471	1-774-701-11	PIN, CONNECTOR 16P	
CNP851	1-770-409-11	CONNECTOR, BOARD TO BOARD 16P	
		< DISCHARGE GAP >	
CP1	1-519-504-11	GAP, DISCHARGE	
		< DIODE >	
D1	8-719-040-04	DIODE MA721WK-(TX)	
D31	8-719-422-49	DIODE MA8056-L	
D51	8-719-423-07	DIODE MA8100-L-TX	
D321	8-719-200-82	DIODE 11ES2	
D331	8-719-422-97	DIODE MA8091-M	
D332	8-719-200-82	DIODE 11ES2	
D371	8-719-422-12	DIODE MA8039	
D372	8-719-404-46	DIODE MA110	
D373	8-719-404-46	DIODE MA110	
D471	8-719-049-38	DIODE 1N5404TU	
D472	8-719-422-64	DIODE MA8062-M	
D473	8-719-017-98	DIODE MA8200-TX	
D552	8-719-041-79	DIODE MA721WA-TX	
D553	8-719-400-20	DIODE MA152WA	
D561	8-719-422-64	DIODE MA8062-M	
D562	8-719-422-64	DIODE MA8062-M	
D563	8-719-422-64	DIODE MA8062-M	
D564	8-719-404-46	DIODE MA110	
D571	8-719-422-64	DIODE MA8062-M	
D572	8-719-017-62	DIODE MA8068-L-TX	
D573	8-719-422-64	DIODE MA8062-M	
D574	8-719-422-64	DIODE MA8062-M	
D601	8-719-404-46	DIODE MA110	
D602	8-719-022-90	DIODE MA8160M	
D603	8-719-420-14	DIODE MA8082-M	
D604	8-719-404-46	DIODE MA110	
D651	8-719-423-21	DIODE MA8110-L-TX	
D665	8-719-422-64	DIODE MA8062-M	
D666	8-719-422-64	DIODE MA8062-M	
D667	8-719-422-64	DIODE MA8062-M	
D668	8-719-422-64	DIODE MA8062-M	
D669	8-719-422-64	DIODE MA8062-M	
D670	8-719-422-64	DIODE MA8062-M	
D671	8-719-422-64	DIODE MA8062-M	
D672	8-719-422-64	DIODE MA8062-M	
D673	8-719-022-90	DIODE MA8160M	
D674	8-719-422-64	DIODE MA8062-M	
D800	8-719-404-46	DIODE MA110	
		< FUSE >	
F471	1-532-982-11	FUSE (BLADE TYPE) (AUTO FUSE) 15A	
		< IC >	
IC2	8-752-075-58	IC CXA2510Q-T4	
IC31	8-759-823-81	IC LC7216M	
IC351	8-752-075-48	IC CXA1946AQ-T6	
IC352	8-759-711-85	IC NJM4580E-D	
IC401	8-759-367-11	IC HA12181FP-EL	
IC471	8-759-369-41	IC HA13155	
IC551	8-759-363-81	IC XC61AN4002PR	
IC552	8-759-344-91	IC RN5VD23AA-TL	
IC571	8-759-096-16	IC MM1175XF-T1	
IC601	8-759-347-49	IC BA3918-V2	
IC651	8-759-823-87	IC LB1638M	
IC701	8-759-438-68	IC uPC78P058GC-228-3B9	
IC801	8-759-801-94	IC LA2113	
IC802	8-759-063-04	IC IR3R42	
IC803	8-759-603-27	IC M5201FP	
IC804	8-759-603-27	IC M5201FP	
		< JACK >	
J1	1-764-808-14	JACK (ANTENNA)	
J451	1-774-700-11	JACK, PIN 6P (BUS AUDIO IN, LINE OUT)	
J561	1-566-822-41	JACK (REMOTE IN)	
		< JUMPER RESISTOR >	
JR2	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR304	1-216-295-00	CONDUCTOR, CHIP (2012)	
		< COIL >	
L1	1-414-146-31	INDUCTOR 2.2uH	
L2	1-414-146-31	INDUCTOR 2.2uH	
L3	1-411-999-11	COIL (VCO)	
L31	1-410-509-11	INDUCTOR 10uH	
L471	1-411-669-12	COIL, CHOKE	
L501	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q1	8-729-902-01	TRANSISTOR 2SA1036K-T-146-P	
Q2	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q32	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q51	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q52	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q171	8-729-920-21	TRANSISTOR DTC314TKH04	

MAIN

Ref. No.	Part No.	Description	Remark
Q181	8-729-920-21	TRANSISTOR DTC314TKH04	
Q271	8-729-920-21	TRANSISTOR DTC314TKH04	
Q281	8-729-920-21	TRANSISTOR DTC314TKH04	
Q331	8-729-015-11	TRANSISTOR 2SD1802FAST-TL	
Q332	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q333	8-729-900-53	TRANSISTOR DTC114EK	
Q334	8-729-106-60	TRANSISTOR 2SB1115A	
Q335	8-729-900-53	TRANSISTOR DTC114EK	
Q372	8-729-424-52	TRANSISTOR UN211F-TX	
Q373	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q374	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q375	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q505	8-729-900-53	TRANSISTOR DTC114EK	
Q551	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q552	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q603	8-729-900-53	TRANSISTOR DTC114EK	
Q604	8-729-424-18	TRANSISTOR UN2113-TX	
Q606	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q622	8-729-900-53	TRANSISTOR DTC114EK	
Q623	8-729-106-60	TRANSISTOR 2SB1115A	
Q624	8-729-030-18	TRANSISTOR 2SD2525	
Q625	8-729-030-18	TRANSISTOR 2SD2525	
Q626	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q627	8-729-900-53	TRANSISTOR DTC114EK	
Q650	8-729-900-53	TRANSISTOR DTC114EK	
Q800	8-729-900-53	TRANSISTOR DTC114EK	
Q801	8-729-902-01	TRANSISTOR 2SA1036K-T-146-P	
Q802	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q803	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q998	8-729-027-60	TRANSISTOR DTC144TKA-T146	
Q999	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

< RESISTOR >

R1	1-216-029-00	METAL CHIP	150	5%	1/10W
R2	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R3	1-216-073-00	METAL CHIP	10K	5%	1/10W
R4	1-216-073-00	METAL CHIP	10K	5%	1/10W
R5	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R6	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R7	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R8	1-216-041-00	METAL CHIP	470	5%	1/10W
R9	1-216-073-00	METAL CHIP	10K	5%	1/10W
R10	1-216-073-00	METAL CHIP	10K	5%	1/10W
R31	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R32	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R33	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R34	1-216-073-00	METAL CHIP	10K	5%	1/10W
R35	1-216-073-00	METAL CHIP	10K	5%	1/10W
R51	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R52	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R54	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R61	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R71	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R121	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R122	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R123	1-216-109-00	METAL CHIP	330K	5%	1/10W
R124	1-216-077-00	METAL CHIP	15K	5%	1/10W
R125	1-216-079-00	METAL CHIP	18K	5%	1/10W
R127	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R128	1-216-073-00	METAL CHIP	10K	5%	1/10W
R151	1-216-073-00	METAL CHIP	10K	5%	1/10W
R154	1-216-075-00	METAL CHIP	12K	5%	1/10W
R171	1-216-041-00	METAL CHIP	470	5%	1/10W
R172	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R173	1-216-073-00	METAL CHIP	10K	5%	1/10W
R174	1-216-081-00	METAL CHIP	22K	5%	1/10W
R176	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R177	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R181	1-216-041-00	METAL CHIP	470	5%	1/10W
R182	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R183	1-216-073-00	METAL CHIP	10K	5%	1/10W
R184	1-216-081-00	METAL CHIP	22K	5%	1/10W
R186	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R187	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R221	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R222	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R223	1-216-109-00	METAL CHIP	330K	5%	1/10W
R224	1-216-077-00	METAL CHIP	15K	5%	1/10W
R225	1-216-079-00	METAL CHIP	18K	5%	1/10W
R226	1-216-079-00	METAL CHIP	18K	5%	1/10W
R227	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R228	1-216-073-00	METAL CHIP	10K	5%	1/10W
R251	1-216-073-00	METAL CHIP	10K	5%	1/10W
R254	1-216-075-00	METAL CHIP	12K	5%	1/10W
R271	1-216-041-00	METAL CHIP	470	5%	1/10W
R272	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R273	1-216-073-00	METAL CHIP	10K	5%	1/10W
R274	1-216-081-00	METAL CHIP	22K	5%	1/10W
R276	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R277	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R281	1-216-041-00	METAL CHIP	470	5%	1/10W
R282	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R283	1-216-073-00	METAL CHIP	10K	5%	1/10W
R284	1-216-081-00	METAL CHIP	22K	5%	1/10W
R286	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R287	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R321	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R322	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R323	1-216-113-00	METAL CHIP	470K	5%	1/10W
R325	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R331	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R332	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R333	1-216-073-00	METAL CHIP	10K	5%	1/10W
R334	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R335	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R336	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R350	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R351	1-216-081-00	METAL CHIP	22K	5%	1/10W
R352	1-216-081-00	METAL CHIP	22K	5%	1/10W
R353	1-216-073-00	METAL CHIP	10K	5%	1/10W
R354	1-216-073-00	METAL CHIP	10K	5%	1/10W
R355	1-216-073-00	METAL CHIP	10K	5%	1/10W
R356	1-216-073-00	METAL CHIP	10K	5%	1/10W
R371	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R372	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R373	1-216-073-00	METAL CHIP	10K	5%	1/10W
R374	1-216-081-00	METAL CHIP	22K	5%	1/10W
R431	1-216-001-00	METAL CHIP	10	5%	1/10W
R432	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R433	1-216-085-00	METAL CHIP	33K	5%	1/10W
R434	1-216-107-00	METAL CHIP	270K	5%	1/10W
R436	1-216-075-00	METAL CHIP	12K	5%	1/10W
R437	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R438	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R439	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R451	1-216-073-00	METAL CHIP	10K	5%	1/10W
R452	1-216-073-00	METAL CHIP	10K	5%	1/10W
R453	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R454	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R472	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R473	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R474	1-216-073-00	METAL CHIP	10K	5%	1/10W
R475	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R476	1-216-081-00	METAL CHIP	22K	5%	1/10W
R500	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R528	1-216-037-00	METAL CHIP	330	5%	1/10W
R551	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R552	1-208-806-11	METAL GLAZE	10K	0.50%	1/10W
R553	1-208-806-11	METAL GLAZE	10K	0.50%	1/10W
R557	1-216-113-00	METAL CHIP	470K	5%	1/10W
R561	1-216-174-00	METAL GLAZE	100	5%	1/8W
R562	1-216-174-00	METAL GLAZE	100	5%	1/8W
R571	1-216-166-00	METAL GLAZE	47	5%	1/8W
R572	1-216-073-00	METAL CHIP	10K	5%	1/10W
R573	1-216-174-00	METAL GLAZE	100	5%	1/8W
R574	1-216-174-00	METAL GLAZE	100	5%	1/8W

Ref. No.	Part No.	Description			Remark
R601	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R602	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R604	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R607	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R608	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R609	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R610	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R622	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R623	1-216-073-00	METAL CHIP	10K	5%	1/10W
R624	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R625	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R626	1-216-037-00	METAL CHIP	330	5%	1/10W
R627	1-216-037-00	METAL CHIP	330	5%	1/10W
R650	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R665	1-216-025-00	METAL GLAZE	100	5%	1/10W
R666	1-216-025-00	METAL GLAZE	100	5%	1/10W
R667	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R668	1-208-806-11	METAL GLAZE	10K	0.50%	1/10W
R669	1-216-073-00	METAL CHIP	10K	5%	1/10W
R670	1-216-025-00	METAL GLAZE	100	5%	1/10W
R671	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R672	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R673	1-216-049-11	METAL CHIP	1K	5%	1/10W
R701	1-216-081-00	METAL CHIP	22K	5%	1/10W
R702	1-216-081-00	METAL CHIP	22K	5%	1/10W
R703	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R704	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R705	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R706	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R707	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R708	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R709	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R710	1-216-081-00	METAL CHIP	22K	5%	1/10W
R711	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R712	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R716	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R717	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R718	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R722	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R723	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R727	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R731	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R732	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R733	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R735	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R737	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R738	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R739	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R740	1-216-057-00	METAL CHIP	2.2K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R741	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R742	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R770	1-216-081-00	METAL CHIP	22K	5%	1/10W
R800	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R801	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R802	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R803	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R804	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R806	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
R807	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R808	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R809	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R810	1-216-081-00	METAL CHIP	22K	5%	1/10W
R811	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R812	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R813	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R814	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R815	1-216-001-00	METAL CHIP	10	5%	1/10W
R816	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R817	1-216-076-00	METAL CHIP	13K	5%	1/10W
R818	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R819	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R820	1-216-098-00	METAL CHIP	110K	5%	1/10W
R821	1-216-099-00	METAL CHIP	120K	5%	1/10W
R822	1-216-081-00	METAL CHIP	22K	5%	1/10W
R823	1-216-172-00	METAL CHIP	82	5%	1/8W
R824	1-216-069-11	METAL CHIP	6.8K	5%	1/10W
R825	1-216-073-00	METAL CHIP	10K	5%	1/10W
R827	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R828	1-216-073-00	METAL CHIP	10K	5%	1/10W
R829	1-216-073-00	METAL CHIP	10K	5%	1/10W
R831	1-216-075-00	METAL CHIP	12K	5%	1/10W
R832	1-216-079-00	METAL CHIP	18K	5%	1/10W
R834	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R835	1-216-073-00	METAL CHIP	10K	5%	1/10W
R836	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R837	1-216-073-00	METAL CHIP	10K	5%	1/10W
R838	1-216-073-00	METAL CHIP	10K	5%	1/10W
R840	1-216-075-00	METAL CHIP	12K	5%	1/10W
R841	1-216-079-00	METAL CHIP	18K	5%	1/10W
R843	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R844	1-216-073-00	METAL CHIP	10K	5%	1/10W
R845	1-216-075-00	METAL CHIP	12K	5%	1/10W
R850	1-216-081-00	METAL CHIP	22K	5%	1/10W
R851	1-216-081-00	METAL CHIP	22K	5%	1/10W
R852	1-216-073-00	METAL CHIP	10K	5%	1/10W
R853	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R854	1-216-041-00	METAL CHIP	470	5%	1/10W
R901	1-216-041-00	METAL CHIP	470	5%	1/10W
R902	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R903	1-216-041-00	METAL CHIP	470	5%	1/10W
R904	1-216-041-00	METAL CHIP	470	5%	1/10W
R905	1-216-041-00	METAL CHIP	470	5%	1/10W
R906	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R907	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R908	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R909	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R910	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R911	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R912	1-216-041-00	METAL CHIP	470	5%	1/10W
R913	1-216-041-00	METAL CHIP	470	5%	1/10W
R914	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R915	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R916	1-216-041-00	METAL CHIP	470	5%	1/10W
R917	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R918	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R919	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R920	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R921	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R998	1-216-025-00	METAL GLAZE	100	5%	1/10W
R999	1-216-097-00	METAL GLAZE	100K	5%	1/10W

< VARIABLE RESISTOR >

RV121	1-238-087-11	RES, ADJ, CERMET	1K
RV221	1-238-087-11	RES, ADJ, CERMET	1K
RV801	1-238-089-11	RES, ADJ, CERMET	4.7K
RV803	1-238-091-11	RES, ADJ, CERMET	22K

< SWITCH >

S511	1-571-478-11	SWITCH, SLIDE (POWER SELECT)
S551	1-692-431-21	SWITCH, TACTILE (RESET)
S561	1-762-108-11	SWITCH, PUSH (1 KEY) (NOSE DET)

< TUNER >

TU2	A-3282-018-A	TUNER UNIT (TUX-006 (EE))

< VIBRATOR >

X11	1-577-126-51	VIBRATOR, CRYSTAL (7.2MHz)
X501	1-579-233-11	VIBRATOR, CERAMIC (5MHz)
X502	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)

****

Ref. No.	Part No.	Description			Remark
		RELAY BOARD (SUPPLIED WITH MAIN BOARD, COMPLETE)			
		**********			
		< CAPACITOR >			
C1101	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C1102	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C1103	1-164-161-11	CERAMIC CHIP	0.022uF	10%	100V
C1104	1-163-037-11	CERAMIC CHIP	0.0022uF	10%	50V
C1105	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
C1106	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
		< DIODE >			
D1101	8-719-404-46	DIODE	MA110		
D1102	8-719-404-46	DIODE	MA110		
		< COIL >			
L1101	1-410-658-31	CHIP INDUCTOR 220uH			
		< TRANSISTOR >			
Q1101	8-729-920-74	TRANSISTOR	2SC2412K-QR		
Q1102	8-729-920-74	TRANSISTOR	2SC2412K-QR		
Q1103	8-729-027-59	TRANSISTOR	DTC144EKA-T146		
Q1104	8-729-027-38	TRANSISTOR	DTA144EKA		
		< RESISTOR >			
R1101	1-216-093-00	METAL CHIP	68K	5%	1/10W
R1102	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1103	1-216-041-00	METAL CHIP	470	5%	1/10W
R1104	1-216-117-00	METAL CHIP	680K	5%	1/10W
R1105	1-216-041-00	METAL CHIP	470	5%	1/10W
R1106	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
**********					
*	1-662-960-11	SUB BOARD			
		*********			
		< CONNECTOR >			
CN1000	1-774-276-21	SOCKET, CONNECTOR 16P			
CN1001	1-774-944-11	SOCKET, CONNECTOR 14P			
		< DIODE >			
D1001	8-719-422-64	DIODE	MA8062-M		
D1002	8-719-422-64	DIODE	MA8062-M		
D1003	8-719-422-64	DIODE	MA8062-M		
D1004	8-719-422-64	DIODE	MA8062-M		
D1005	8-719-422-64	DIODE	MA8062-M		
D1006	8-719-058-14	LED	CL-220PG-C-TS (CASSETTE DOOR)		
D1008	8-719-422-64	DIODE	MA8062-M		
D1009	8-719-422-64	DIODE	MA8062-M		
		< TRANSISTOR >			
Q1001	8-729-900-53	TRANSISTOR	DTC114EK		
Q1002	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
		< RESISTOR >			
R1001	1-216-025-00	METAL GLAZE	100	5%	1/10W
R1002	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1003	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1004	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1005	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1006	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1007	1-216-029-00	METAL CHIP	150	5%	1/10W
R1008	1-216-029-00	METAL CHIP	150	5%	1/10W
R1011	1-216-073-00	METAL CHIP	10K	5%	1/10W
		< SWITCH >			
S1001	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (⏏)			
**********					
		MISCELLANEOUS			
		**********			
F471	1-532-982-11	FUSE (BLADE TYPE) (AUTO FUSE) 15A			
HP901	1-500-157-21	HEAD, MAGNETIC (PLAYBACK)			
M901	A-3291-644-A	MOTOR ASSY, MAIN			
M902	A-3291-643-A	MOTOR ASSY, SUB			
S901	1-692-885-11	SWITCH, ROTARY SLIDE (TAPE OPERATION)			
**********					
		ACCESSORIES & PACKING MATERIALS			
		**********			
	1-473-067-31	REMOTE COMMANDER (RM-X2S)			
	3-856-246-31	MANUAL, INSTRUCTION, INSTALL (RM-X2S) (ENGLISH, POLISH, BULGARIAN, HUNGARIAN, RUSSIAN)			
	3-858-089-11	MANUAL, INSTRUCTION (ENGLISH, POLISH, BULGARIAN, HUNGARIAN, RUSSIAN)			
	3-858-090-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, POLISH, BULGARIAN, HUNGARIAN, RUSSIAN)			
	X-3369-665-1	CASE ASSY			
**********					

Ref. No.	Part No.	Description	Remark

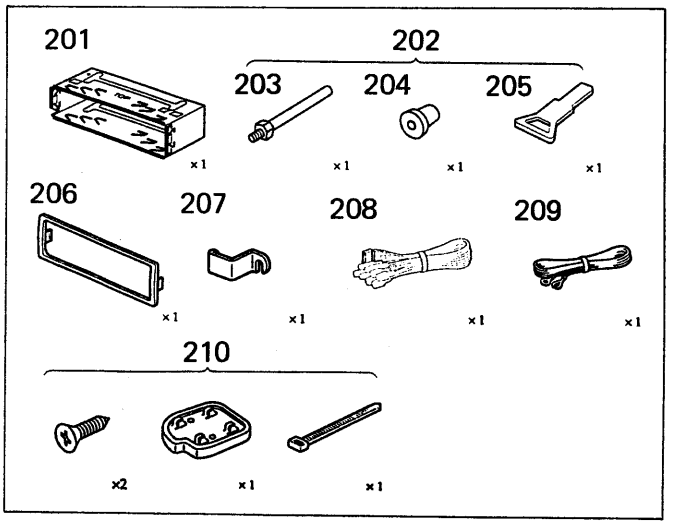
****
HARDWARE LIST
****

#1	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT
#2	7-621-772-30	SCREW +B 2X6
#3	7-628-253-00	SCREW +PS 2X4
#4	7-621-773-87	SCREW +PTT 2.6X10 (S)
#5	7-621-773-95	SCREW +PTT 2.6X6 (S)
#6	7-624-104-04	STOP RING 2.0, TYPE -E
#7	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3
#8	7-685-105-19	SCREW +P 2X8 TYPE2 NON-SLIT

****

PARTS FOR INSTALLATION AND CONNECTIONS
****

201	3-916-161-42	FRAME, FITTING
202	X-3370-077-1	SCREW ASSY (AE.KEY), FITTING
203	3-386-828-01	SCREW, FITTING
204	3-349-410-01	BUSHING
205	3-388-078-01	KEY
206	3-932-209-01	COLLAR
207	3-936-243-01	STOPPER
208	1-776-207-11	CORD (WITH CONNECTOR) (POWER)
209	1-575-616-21	CORD (WITH TERMINAL) (CHASSIS EARTH)
210	X-3369-817-1	BRACKET ASSY (RM-X2S)



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